







REPORT

OF THE

COMMITTEE

APPOINTED BY THE

BOARD OF PUBLIC EDUCATION

TO INQUIRE INTO THE

SANITARY CONDITION OF THE SCHOOLS

OF THE

First School District of Pennsylvania, City of Philadelphia.

CONTAINING

ANALYSES OF THE AIR OF SCHOOL ROOMS, REPORTS OF PHYSICIANS, TABULAR STATEMENTS, AND DETAILS OF
THE SANITARY CONDITION, ETC., ETC.,
OF TEACHERS AND PUPILS.

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REPORT.

Philadelphia, July 13, 1875.

To the Board of Public Education,

First School District of Pennsylvania.

Gentlemen: The Committee to which was referred the communication of the Social Science Association of Philadelphia, in regard to the hygienic condition of the Public Schools of this city, respectfully report, that it has given the subject matter of the communication the fullest consideration, and used all the appliances at its command, to secure the information desired by the society named.

The work of collecting the facts embraced in the accompanying papers, was not by any means an easy one, as will be demonstrated by a reference to those papers, yet with all its difficulties it was cheerfully undertaken, alike by those who contributed to their preparation, either by presenting the facts, the making the chemical investigations, and the summarizing and reporting upon them.

In their work the Committee received much valuable assistance from Mr. R. Thomson, of the Boys' Central High School, Dr. Pemberton Dudley, Dr. J. Gilbert Young, and other scientific and medical gentlemen, to whom it here makes its acknowledgments, and expresses its thanks for the good services rendered by them.

From Dr. B. L. Ray, who carefully examined all the reports of the scientific gentlemen, the Committee received very important aid, and are under great obligations to him for the very clear, concise and satisfactory summary which he prepared—which summary is herewith presented to the Board.

Whilst many of the reports received are not as full as desired, it is yet a satisfaction that every school in the district (with two exceptions) has been heard from, and the only source of regret with your Committee arises from their inability to secure a thorough medical examination in every section.

The Committee urgently request each Member of the Board to carefully examine the papers presented, that they may become not only acquainted with the facts which are connected with their section, but with those of all the sections, to the end that they may, when the time shall arrive for action by the Board, upon the many subjects treated of in the report, be able to act promptly and effectively in bringing about the much needed improvements in the hygiene of our Public Schools.

An examination of the papers will make it apparent, that in a large number of the schools reform is much needed in the matter of the position of the pupils' desks and the black-boards, as regard the direction from which the light enters the classrooms. In the class-rooms where the positions of the desks are faulty, because of the light falling directly upon the face of the pupil, when sitting at the desk, they should as far as possible have their positions so changed that the light may be received at the side or from behind the pupil, and the black-boards be so arranged as to be in harmony with the light received from such directions. There cannot, the Committee feel free to say, be any excuse, much less any justification for such architectural arrangement of school-houses which may hereafter be built, as will not secure the arrangement of the desks and black-boards to be in such position with the windows of the class-rooms that the reception of the light upon them and the pupils will be either from the side or from behind the pupils when seated at the desks, or when working on the black-board.

As regards the matter of physical exercise, the Committee feel called upon to remark, that while it may not be possible from the peculiar construction of some of the school-houses to have space sufficient and the other necessary conditions to permit of gymnastic exercises being engaged in by the pupils,

with benefit in the class-rooms, yet the importance of physical exercise, as a means, if of nothing more, of withdrawing the brain from its toil, and of thus securing mental relaxation, should not be overlooked, and hence that in some form such exercise should not only be indulged in, but commanded at set periods every day. If from the arrangement of the schoolrooms the exercises cannot be practiced in the school-building, they may, nevertheless, be engaged in outside of the classrooms, in the yards attached to most of the school-houses.-The Committee fear that the law of the Board which requires that the pupils shall have a recess each morning of thirty minutes, is not universally complied with by the teachers, and that in some instances it is advised the morning session is continued without interruption for two and a-half hours, when the pupils are dismissed, the thirty minutes being added to the period intervening between the closing of the morning and the opening of the afternoon sessions, thus making the morning session from 9 o'clock to 11.30 o'clock, instead of, as ordered by the Board, from 9 A. M. to 12 M., with a recess of one-half hour during that period. Whilst this arrangement, on the part of those teachers who direct it, virtually gives to the pupils the full time for tuition directed by the Board to be given to them, the sanitary and hygienic purposes of the morning recess, namely, the taking from the brain the tension to which it has been for an hour and a-half submitted, and the exposing of the children to the healthful influence of a better light and purer air than that of the school-room, and the mental and physical invigoration which results from that abandon and giving up to free and unrestrained natural and joyous exercise of the physical and mental systems, as may be seen in any school-yard during recess, is cruelly denied the children. In every instance where the recess required by the Board is withheld from the children, there is a gross wrong done to them, the effects of which your Committee fear, in too many instances, present themselves in impaired health, enfeebled brain power, and defective nerve force—the outcropwomanhood and early manhood, as qualified by the terms—"broken down health," and "shattered constitutions." The wrong referred to must not be tolerated. It must be arrested, and the Board should see to it, that by the due infliction of proper penalties upon the teachers who deny to the pupils their rights in the matter of the healthful benefits incident to the thirty minutes morning recess, shall be made to realize the importance to the pupils, of the mental and physical relaxation and invigoration which result from their withdrawal of thirty minutes from their labors in the school-room, and their devotion of the recess to exercise and pastime in the open air.

In reference to the school furniture, the facts collected justify the conclusion that the pupil's desks, which have for the past few years been furnished, are, as regards their height for the different grades of schools, their form, and the construction and shape of the seats, such as largely meet the requirements of the pupils for comfort and health.

The subject of the ventilation and warming of the schoolhouses largely engaged the attention of the Committee. Upon this branch of their investigation many very interesting and important facts have been collected, which must, if properly regarded, aid very positively in securing for the class-rooms their better heating and pure effective ventilation. The Committee are not ignorant of the fact, that the matter of heating and ventilating school-rooms, and indeed all rooms in which large numbers of persons remain for hours, is fraught with many difficulties, and that able minds have been, as they are now, engaged in endeavoring to solve the problem, of how to successfully warm and ventilate assembly rooms. In view of these difficulties, and with the belief that the Committee presents to the Board something practical in reference to the improvement of the ventilation of the school-rooms, the Committee invite special attention to the suggestions of one of the Committee, Dr. Nebinger, as embodied in his report of the hygienic condition of the class-rooms of the Second Section. The Committee not only invite the attention to these suggestions, but recommend that the suggestions be put into immediate practical operation.

A source of atmospheric contamination very generally complained of in the reports, is, the foul and disgusting emanation from privies connected with some of the school-houses. This source of atmospheric contamination is entirely within the power of the means of control, and should at the earliest possible period be remedied by the emptying of the wells, the free use of disinfectants, and the connecting of the privies by means of properly constructed wooden or terra-cotta ventilating tubes with the smoke flues of the school-houses, a means at once efficient, simple, and easy of application.

A very serious complaint comes from some of the sections in regard to the inadequacy of the heating apparatus. The Committee suggest that in every instance complained of, that it be duly inquired into, and if found well based, that the needful remedy shall be applied.

Advanced sheets of the tabulated matter of this report, and the reports of the scientific gentlemen upon the atmosphere and ventilation of the school-rooms, were furnished to Dr. D. F. Lincoln, of Boston, who made use of them in his very interesting report presented to the American Social Science Association at its meeting held at Detroit, Michigan, May 11, 1875. In referring to these reports Dr. Lincoln said, in substance, that the facts embodied in them were the first of the kind that had been collected and tabulated by any Educa tional Board. Thus it will be seen that this Board has been, to a certain extent, a Pioneer in a specialty of hygiene, as connected with Public Schools. Since the presentation to the American Social Science Association, of the matter contained in the accompanying tabulated reports, a series of questions similar to those of our reports have been prepared by the school authorities of St. Louis, and circulated among the teachers of the schools of that City, for the purpose of obtaining information in regard to the hygienic condition of its Public Schools.

The abstracts of the several reports received by your Committee do not show as satisfactory a condition of our school buildings as could be wished, and yet we feel that the very plain and pointed statements of defects as given by teachers and physicians, will induce our respective committees and the various Sectional Boards to take immediate steps to remove the difficulties complained of, and to this end your Committee would respectfully ask that this report, with the accompanying documents, be printed in pamphlet form for general distribution.

The Board will find herewith copies of the blanks prepared by your Committee and abstract of the answers received, classified under the heading of "Grammar," "Consolidated," "Secondary," and "Primary" Schools.

> We have the honor to be, Very respectfully, yours,

> > LOUIS WAGNER, Ch'n,
> > D. STEINMETZ,
> > A. NEBINGER.

DETERMINATIONS OF CARBONIC ACID AND OF WATER IN AIR,

(Schools in Second Section,)

By E. Thomson, High School Laboratory.

The following analyses were undertaken with a view to finding the amount of carbonic acid which may be expected to exist in the atmosphere of an ordinary school-room, and to discover, if possible, conditions favorable and unfavorable to good ventilation.

In the first place, however, it becomes necessary to decide what proportions of constituents may be regarded as pure or normal air, such as may be taken as a standard of comparison. Many investigators and prominent among them, Dr. R. Angus Smith, recognize the following proportions of gases as expressing very nearly the composition of pure or normal air, watery vapor excluded.

			Per c	ent. by measure.
Oxygen, -		-	-	20.96
Nitrogen, -	-	- (-	79.00
Carbonic Acid,	-	- \	-	.03 to .04

The amount of carbonic acid varies slightly above and below the amount given.

The two following analyses of external air, agree, in general, with the proportions given. The amount of water is also given.

The observations are calculated for a standard of 60° F.

In all the analyses here given, the *volume* of carbonic acid found, is compared with 10,000 *volumes* of air. The water is given in parts by *weight* compared with 10,000 parts by *weight* of air.

No. 1. Analysis of Pure External Air.

The sample was taken February 27, at a temperature below the freezing point. There was high wind at the time, and the day was cloudy.

7112 6732		7 Volumes 10,000	in Parts by Weight.
Carbonic Acid,	· - · - · - · - · - · - · - · - ·	7 - 2.88	4.08 in 10,000
Water,	-		37.68 in 10,000

No. 2. Analysis of Pure External Air.

This sample was taken March 13th; temperature 55° F.; weather, rainy and damp, with very little wind:

	7.	Volumes in	Parts by weight.
Carbonic Acid,	 		4.54 in 10,000
Water,	 -		75.14 in 10,000

The results obtained by Dr. R. A. Smith, show that, in general, the more wind, the less the carbonic acid, and that, during a calm, it rises in quantity. This fact is, doubtless, due to the wind preventing the formation of local atmospheres containing higher proportions of carbonic acid.

His results also show that in cities, the amount is greater than in the rural districts, unless very high winds prevail.

Besides the gases already referred to, a trace of ammonia and a small proportion of carbides of hydrogen, are generally present in air.

Pure air is contaminated by the operation of many causes. The sources of impurity may be briefly tabulated as follows?

Respiration, introducing

Carbonic acid, water, with organic impurities, ammonia and similar substances.

Combustion, as of wood, gas, or coal:

Carbonic acid, water, hydrocarbon vapors, sulphurous acid, acetic acid, soot, &c.

Fermentation, animal and vegetable decomposition:

Carbonic acid, ammonia, sulphide of hydrogen-carbides of hydrogen, &c., e.g. sewer gases.

General wear and tear, and miscellaneous sources of impurity:

Animal excreta, volatile oils, &c., fibres from clothing, emanations during disease, organic germs, &c.

In school-rooms, all of these sources exist to a greater or less extent. The impurities thrown off in respiration, are, doubtless, in many cases, added to by leaky flues in heaters and stoves, gases from sewers, and the like, and impurity arising from neglect of cleanliness of the pupils.

In all the sources of contamination mentioned, carbonic acid is produced, and its quantity may, with few exceptions, be taken as an index of the presence or absence of other and more harmful substances.

Pure carbonic acid, mixed with air, exerts but little truly poisonous action, but when accompanied, as it usually is, by quantities of organic putrescible substances, for continued respiration, it is most injurious.

. The following analyses give the proportions of carbonic acid and water as found in samples of air taken from schools in the Second Section. In all cases the schools were in full session.

No. 3. Wharton School-House.

Boys' Secondary—Second Division; about 30 pupils present; 30 pupils—155 cubic feet one window open about 2 feet; weather, damp; outside tem-of air to each perature a few degrees above the freezing point.

The results of analysis are:

Volumes in 10,000.

Carbonic acid, 11.68.

Water, 76.58 parts, by weight, in 10,000.

The carbonic acid is about three times that of normal air. The water found agrees with the damp condition of the air.

No. 4. WHARTON SCHOOL-HOUSE.

30 pupils-160 cubic feet pupil.

Boys' Primary—First Division; about 30 pupils; one window of air to each open 8 or 10 inches; large transom over the door, wide open; fair weather, temperature outside 47°.

Volumes in 10,000.

Carbonic acid, 5.93.

70.09 parts, by weight, in 10,000.

A strong draft of cold air from the transom was noticed while taking the sample used in this analysis, which fact fully accounts for the low proportion of carbonic acid found.

No. 5. Wharton School-House.

41 pupils-152 cubic feet pupil.

Girls' Secondary—Fourth Division; no windows open; the of air to each transom partly so; weather, very bad, high wind and shower of sleet.

Volumes in 10,000.

Carbonic acid, 15.33.

Water

60.61 parts, by weight, in 10,000.

The amount of carbonic acid is considerable and arose from the necessity for closing the windows on account of the storm.

No. 6. GEO. W. NEBINGER SCHOOL-HOUSE.

For each of rooms, for a special pur-pose, there were but 66 cubic feet of air. Atordinary times there are about 140 cubic feet of air

pil.

Two rooms were being used connectedly, with over 190 pupils the 100 pupils of the boys' primary, two windows open each about 10 inches, into two class two transoms partly open; weather, bright and clear.

Volumes in 10,000.

Carbonic acid, 21.34.

57.73 parts, by weight, in 10,000. Water,

For the purpose of receiving instruction in music, four divisfor each pu- ions were crowded into the space ordinarily occupied by two. The proportion of carbonic acid and organic impurities is therefore high.

> It is proper to state that such crowded condition was for a half hour only.

No. 7. Geo. W. Nebinger School-House.

Girls' Grammar—Fourth Division; 40 pupils; two windows 40 pupils—158 cubic feet down, 4 inches each; weather, dull and cloudy; inside temper- of air to each ature about 72°.

Volumes in 10,000.

Carbonic acid, 16.26.

65.65 parts, by weight, in 10,000. Water,

In this instance the amount of carbonic acid might have been less had the windows been opened to a greater extent; at the same time, the temperature being high would not have been inconveniently reduced by so doing.

No. 8. GEO. W. NEBINGER SCHOOL-HOUSE.

Boys' Grammar—First Division; 30 pupils; one window 41 pupils open to a small extent; weather very fair; inside temperature of air to each 66°.

Volumes in 10,000.

Carbonic acid, 12.68.

44.17 parts, by weight, in 10,000. Water,

The amount of carbonic acid is moderate.

No. 9. Washington School-House.

Boys' Secondary—Fourth Division; 54 pupils; one window 54 pupils—161 cubic feet partly open: weather comparatively warm and fair. of air to each pupil.

Volumes in 10,000.

Carbonic acid, 16.77.

40.21 parts, by weight, in 10,000. Water,

No. 10. Washington School-House.

Girls' Secondary—Fourth Division; 38 pupils; one window 38 pupils—210 cubic feet fully opened; weather very fair.

of air to each pupil.

Volumes in 10,000.

Carbonic acid, 8.65.

45.61 parts, by weight, in 10,000. Water,

The low amount of carbonic acid is traceable to the ventilation afforded by the open window.

No. 11. Washington School-House.

58 pnpils—Boys' Primary—4th Division; 58 pupils; three windows of air to each open 1½ feet; weather bright and clear.

Volumes in 10,000.

Carbonic acid, 10.16.

Water, 40.57 parts, by weight, in 10,000.

In this case, again, the proportion is low, and is evidently due to the number of windows open, thus affording rapid change of air.

The following analysis is of air taken from one of the rooms of the High School building when about 40 pupils were present.

No. 12. FROM HIGH SCHOOL.

One window wide open; weather extremely damp and rainy.

Volumes in 10,000.

Carbonic acid, 12.70.

Water, 103.12 parts, by weight, in 10,000.

The proportion of water is over one per cent., and shows at once the very moist condition of the atmosphere.

For purposes of comparison the breath, as exhaled from the lungs during respiration, was analysed, and found to contain—

Volumes in 10,000.

Carbonic acid, 378.48.

Water, 265.80 parts, by weight, in 10,000.

In other words the proportions are by weight, a little over 5 per cent. of carbonic acid and $2\frac{1}{2}$ per cent. water.

The average proportion of carbonic acid from the ten analyses of air from school-rooms is 13.13 volumes in 10,000 of air, or about four times that found in normal or pure air.

There is no standard of purity which distinguishes good from bad air, since the one condition passes insensibly into the other, and a sample of air from confined situations is more or less pure or impure by comparison. It is safe to conclude, however, that if from 10 to 15 measures of carbonic acid exist in 10,000 of air, the latter cannot be regarded as of good quality, and must be unwholesome, but there can be no question that when the amount is 20 or more that positive injury must ensue to those remaining in such an atmosphere. Too much importance cannot be attached to the fact that although carbonic acid, pure and mixed with air, is comparatively harmless, yet, as in school-rooms and the like, it is always associated with the noxious products of organic changes, and that a large amount of these latter is almost always concomitant in the presence of a like amount of carbonic acid.

The foregoing analyses being made under varying conditions of temperature, wind, and moisture, afford no criterion as to the relative ventilation of the schools from which the samples were taken.

For example, the weather was much milder and more favorable when the samples used in Analyses 10 and 11 were obtained than was the case with several of the others. In some the temperature and state of weather was such as to preclude the use of open windows for ventilation.

From an attentive consideration of the conditions in each case, the following inferences are, perhaps, justifiable.

1. Under similar conditions the amount of carbonic acid and organic impurity will be greater in proportion to the age and size of the pupils.

Hence in the Primary Schools the purity, at least so far as carbonic acid is concerned, may exceed that of Secondary and Grammar Schools.

2. That undue crowding, especially in bad states of weather, as excessive cold, may, by the increase of impurities, produce conditions that are alike prejudicial to both teacher and pupil. In Analyses 6 and 9 the inference is clearly exemplified.

3. No case was found in which the most moderate ventilation could have been secured without the use of open windows. Analyses Nos. 4, 10, and 11, which show the least amounts of carbonic acid, apply to cases in which open windows were doing the work of ventilation.

The amount of water in the air varies, of course, to a very considerable degree, but it is seldom less than one-fifth per cent., and never rises much above three per cent.

E. THOMSON.

SUPPLEMENTARY TABLE. EXAMINATION OF AIR BY CHEMIST.

SCHOOLS IN SECOND SECTION.

	W ЕАТИЕВ О	WEATHER OUTSIDE AS TO	birs.		TAGE,		٠,		
NAMES OF SCHOOLS.	анитлячк а Т	Dampness.	ич вен ов Ри	"38" Cubic Feet of Pupit.	C. O2, PER CEN (By volume	WATER 12 THE OF ROOM, PARTS BY WEIG 10,000.	Wixdows open	TRANSOM.	REMARKS,
George M. Wharton Boys' Secondary, 2d Division	(A little above)	Danip	30	155	.1168	76.58	1, 24 inches.		
" " Primary, 1st Division	470	Fair	30	160	.0593	70.09	1, 9 "	Wide open	Strong draft from transom.
" Girls' Secondary, 4th Division	About freezing	Damp	41	152	.1533	19.09	Closed	Part open	Sleet and wind, compelled to
George W. Nebinger		Clear & bright	*190	99*	*.2134	57.73	2, 10 "	2, " " …	Pupils crowded together for music lessons—only a half-hour.
" Girls' Grammar, 4th Division		Cloudy	40	158	,1626	65,65	2, 4		(Twice the ordinary dens.ty.
" Boys' Grammar, 1st Division		Fair	30	155	.1268	44.17	I, slightly		
Washington Boys' Secondary, 4th Division	Warm	Fair	54	191	.1677	40.21	1, partly		
" Girls' Secondary, 4th Division		Fair	38	210	2980°	45.61	1, w.de		
" Boys' Primary, 4th Division		Clear & bright	58	140	3101.	40.57	3, 18 inches		
Boys' High School		Very Damp	40		.1270	103.12	1, wide		
			Averages	*150	.1315	60,43			(*Exceptional circumstances, see
February 27, Out door air No. 1	Below freezing	Cloudy & windy			.0288	37.68			,
March 13, Out door air No. 2	550	Damp & calm			.03205	75.14			
air just exhaled from lungs, was found to contain					3.7848	(265.80, or (2.658 p. ct.			
ભ									E. THOMSON.

SECOND SECTION.

To the Sanitary Committee of the Board of Public Education:

Gentlemen:—Desiring to have the atmosphere of a number of the class-rooms of the school-houses of the Second School Section analyzed with accuracy, to determine the percentage of carbonic acid in the air of each, we invited Mr. E. Thomson, A. B., Assistant to the Professor of Chemistry of the Boys' High School, to take charge of the investigation. Mr. Thomson, with great kindness and readiness, consented. He gave to the work of the analysis a large amount of time and labor, and prepared a report of his investigations which is herewith presented. The report is clear, comprehensive, and abounds in suggestive facts which cannot fail to interest those who give attention to the study of the laws of health.

It may be well here to remark that inasmuch as the class-rooms whose atmosphere Mr. Thomson examined, may be regarded as representing the average class-rooms of the school-houses of the First School District, that the results of the analysis of the atmosphere of these rooms therefore express about the condition of the atmosphere of all the class-rooms in the public school-houses of Philadelphia.

If, in the report of Mr. Thomson, one fact more than another is forcibly presented, it is that the means, apart from open windows, which are applied to ventilating our school-houses are inefficient.

In regard to the three rooms of the Wharton School-house, the air of which was analyzed, we have to record that although there are ventilating shafts and ventilators, so called, by which it has been supposed the ventilation of the rooms was secured, yet the only means as experience and science have demonstrated by which the ventilation of those apartments can be effected is by open windows.

The other two school buildings, in which the atmosphere of three rooms of each was examined, and the results of the analyses reported by Mr. Thomson, are buildings which are known as new school-houses, one was built in 1868, the other in 1872, and are as complete and as well constructed as regards their ventilating appliances as any of the public school-houses of the city, yet Mr. Thomson's report exhibits that the ventilation of the rooms of these buildings is but little, if any, more satisfactory than the ventilation of the class-rooms of the Wharton building, where the powers of the ventilating apparatus may be expressed by a cipher.

Too much importance cannot be attached to the perfect ventilation of the school-rooms. In Philadelphia, during ten months of the year, about four and a half hours of each school day are spent in the school-rooms, by 90,000 children, ranging from six to seventeen years, and about 2,000 teachers. Who can possibly estimate to what extent the laws of health are violated by compelling these 92,000 persons to breathe day in and day out an atmosphere surcharged to the extent of five, six, or seven times the sum of carbonic acid that normal air contains, and then superadded to this a sum of organic impurities which may be expressed by the same numbers as indicate the excess of carbonic acid? Who can, in numbers, express the degree of violence done to health, the sum of human suffering engendered, and to what extent life may be shortened by the respiration of the unnecessarily impure atmosphere of school-rooms?

It must be borne in mind that an excess of carbonic acid is not the only pernicious matter which contaminates the air of school-rooms as a result of respiration, and of exhalation from the surface of the body, etc. There is organic or putrescible matter given off from the lungs at every respiration, which matter is held in solution in the watery vapor expired. This organic putrescible matter the best authorities declare is more injurious to health when inspired, than is the ordinary excess of carbonic acid which is present in defectively ventilated assembly rooms. Whilst there is not any means by which the

organic putrescent matter can be quantitatively determined, yet it can, for all useful purposes, be approximately fixed. Thus the sum of putrescible matter in any school-room, for example, is expressed by the same figures as indicate the sum of the excess of carbonic acid. In other words, if the carbonic acid is five, six, or seven times in excess of the sum of that gas in normal air, then is the putrescible matter five, six, or seven times in excess of such matter in ordinary air. The watery vapor expired from the lungs, and which holds in solution the putrescible organic matter, is not under ordinary circumstances visible. It is rendered visible, however, by condensation, as is often seen on the glass of the windows and not unfrequently observed flowing down them in currents, where a large number of persons are assembled in a room when the external temperature is below-the freezing point. Nearly the entire amount of the condensed vapor which is seen under such circumstances was once in the bodies, and with all its foul putrefactive matter was cast off or exhaled by those in the room, and in its aeriform condition, by being breathed or inspired, enters again the circulation of every one of the auditory, and much or little, corrupts and poisons their bodies. From these observations it will at once be seen, that there is a double necessity for efficient ventilating apparatus in all school-rooms and other rooms where the atmosphere is subjected to contamination from the presence of a large number of persons.

While we are disposed to regard with favor, the plan which has been applied of late years to the ventilation of our school-rooms, as embodying the practical and useful, yet we are confident, that it is in its operations, because of its defective application and details, inefficient. The imperfections referred to, in our estimation, although very positive, we think may be readily avoided in the application of the plan to the school-houses which may be hereafter constructed—and be largely remedied in many of our recently erected school-buildings.

The plan of ventilation now in vogue in our so called modern or new school-houses, is by openings into a shaft, or flue,

through which an iron smoke or gas-pipe connected with the heater passes. This apparatus is defective in our opinion, first in the small size of the shaft, second in the size of the ventilating openings into the shaft, third in the localities of the openings. The shaft has not sufficient capacity to carry off with the required rapidity the contaminated air, even though the openings into it were of sufficient size, and in the best places to permit the air to pass with the required freedom from the room into the shaft, and through it into the external air. The ventilating registers are generally about 14 inches by 20 inches. The face of the register has many small openings in it, but it is however mainly made up of scroll or fret work, which embraces about two-thirds of the entire face, so that a ventilating register 14 by 20 inches gives an opening into the shaft, practically and absolutely, of about 5 by 7 inches only, through which small openings we unreasonably expect to have escape from a room containing from 40 to 50 children, the expired air, with sufficient rapidity to keep the atmosphere of the room at or near the normal condition. The mere presentation of these statements is of itself, we feel, sufficient to make clearly manifest the insufficiency of our plan of ventilation, yet, as we have already in substance remarked, we incline to the opinion that the fault is not in the principles involved in the plan, but in the details and the imperfections of their application. We would suggest that hereafter in all the school-houses which may be built under the supervision of the Board of Education, in which the plan of ventilation on which we have been commenting may be introduced, that the ventilating shafts shall be increased to thrice the capacity of those now in operation; that the openings into the shaft be not less absolutely than 16 inches by 24 inches, and that they be covered with iron doors which can be easily opened and closed partially or completely by teachers and janitors, and that these openings be near the ceilings. We have in our mind a form of frame and door with an arm, to which two cords could be attached, one for opening, the other for closing it, which would be far less costly than the

ventilating registers now used, and which could be easily worked, and would present the smallest liability to get out of order.

If we would secure complete ventilation of the school-room, we must not contemplate its cost in the consumption of fuel. To warm properly and to ventilate efficiently our school-rooms, there are required large and well constructed heaters, whose hotair chambers must communicate directly with the air outside of the school-house, through cold air trunks, and the ventilating shafts must be of large capacity, with openings into them of such dimensions as will permit the air to rapidly flow out of the room into the shaft and through it into the external air.

The factors of effective ventilation of our school-rooms in cold weather, are the introduction of a full supply of hot pure air, and the rapid escape without the sensible production of air currents, of the respired air. Until the heating and ventilating appliances of our school-rooms embrace these factors the class-rooms will present conditions prejudicial to health, vigor, and long life.

A. NEBINGER, M. D.

FOURTEENTH SECTION.

No. 684 North Twelfth Street.

Philadelphia, March 15, 1875.

To the Board of Directors of the Public Schools, Fourteenth Section.

Gentlemen:—Accompanying this you will receive duplicate reports of the results of the sanitary examination of the public school-buildings of your section. The time at my disposal, since my appointment about two weeks ago, was too limited to allow of such a general and thorough investigation, as I should have been glad to make; yet the results obtained are well worthy of your careful consideration. I here present certain facts in connection with our schools, which could not well be presented in the printed blanks.

The examinations for carbonic acid were made during the comparatively warm days of March 10th, 11th, 12th, and 15th. The windows of the rooms examined were more or less open in every case; yet a considerable quantity of carbonic acid (C. O₂) was detected in all of them. Wherever living beings are congregated there must, of course, be carbonic acid, but the fact that but one tenth per cent. or even less was found in one or two of the rooms proves that it is possible to maintain an equal degree of purity in all the others. On the other hand, the presence of .3 to .5 per cent. of carbonic acid in the school-rooms at Twelfth and Ely's avenue, with half-a-dozen of the windows lowered one foot from the top, is strikingly significant of what might be expected in colder weather, with the windows closed.

All the school-rooms in the ward appear to be sufficiently heated. An exception, however, is noted at the Monroe School. In this building, if the heat from the "side heaters" is turned on at the two upper floors the lower floor gets none at all. This could perhaps be easily remedied by means of dampers, so arranged as to prevent a portion of the warm air from rising to the upper rooms. As regards moisture, some of the teachers

complain of dryness of the throat and weakness of voice during school hours. The absence of these symptoms during the warmer weather makes it probable that they are due not alone to the constant effort of speaking, but also in some degree to a deficiency of moisture in the air of the school-rooms.

The lighting seems to be sufficient in most instances, but would be still better, were the windows extended nearer to the ceilings. Such an arrangement would also add greatly to the comfort and healthfulness of the rooms during the hot weather. It is to be hoped that in school-buildings yet to be erected, this point may not be lost sight of. The direction of the light in relation to the position of the desks is faulty in very many cases; and it is difficult to suggest a remedy, inasmuch as any change in the position of the desks necessitates a change also in the location of the black-boards, maps, charts, &c., bringing them not unfrequently against the glass partitions, which would, of course, be objectionable.

The air space allowed each scholar is in some cases hardly sufficient, particularly in the primary schools, where the desks, being smaller, are crowded into a narrower space than in the higher schools. And while speaking of the desks, it may be well to state that in all the primary schools we find a few scholars of larger growth, whom the *primary* desks are too small and contracted to allow them to sit with comfort. Could not a few desks of a larger pattern be introduced into the primary schools, for the special use of the older pupils?

The outlets or ventilators are; in nearly all cases, much too small, and too few in number, and improperly located. The warm air, after leaving the register, should make a complete circuit of the room before passing out at the ventilator. This can be secured only by having the inlets and outlets both on the same side of the room. When they are on opposite sides as in the case of the Wm. D. Kelly Schools, the pure, warm air rises from the register, passes over the heads of the scholars, down along the opposite wall and into the outlet. The most

important part of the circuit, viz.: that part which is occupied by the inmates, is omitted altogether. Another faulty method, adopted in the John M. Ogden and Monroe Schools, consists in placing the outlet in the wall at the corner of the room, with the inlet alongside of, and on a level with it. In such cases the cold, foul, air, as it approaches the outlet, is caught in the ascending current of hot air, and thrown up again into the middle of the room. This defect, as it exists in the upper stories of the two schools above named, could be remedied by raising the inlets about eighteen or twenty-four inches, allowing the cold current to pass under the warmer current. The matter of opening the windows of a school-room as a remedy for defective ventilation, is not only of doubtful, or at least partial efficacy, but it also involves danger to the health and lives of the pupils; to say nothing of the great waste of fuel.

The questions in reference to the languid or fresh appearance and postures of the pupils are difficult to answer; first, because the rules forbid faulty postures, and secondly, because the presence of a casual visitor would serve to dissipate for the time any tendency to exhibit languor or debility. Also as regards Question No. 11, I may say that cases of headache and various nervous disorders are frequently met with, which appear to be either caused or aggravated by some circumstances connected with school duties and discipline. But whether these troubles arise from the influence of foul air, or hot air, or too long confinement in one position, or improperly fitting school clothing, or excessive application, or undue anxiety to excel, or from some obscure physical weakness, is a question that can rarely be decided with positive certainty. A certain degree of liability to ill health seems to be inseparable from the discipline of school life, however carefully and judiciously such discipline may be improved, and particularly does this appear to be the case in girls, who may be just passing one of the most critical periods of life.

A word as to the various buildings. The John M. Ogden School is the only one in which the cesspool is offensive, and in

this case the offensiveness results from its location in a narrow space with high walls on either side which protect it from lateral currents of air so that the effluvium rises to the schoolroom windows. Would not self-acting traps in combination with a tall flue, remedy the matter? The cellar of this building is damp, with pools of standing water at times. The faulty grading of the cellar floor renders the drain useless. The light on the east side is seriously obstructed by adjacent buildings.

The Robert T. Conrad and Wm. D. Kelly Schools have no ventilation except by doors and windows, the ventilators being closed, and rendered useless in one case by rust, and in the other by rubbish. One of the third-story rooms of the Kelly School, is kept oppressively hot by the heating of the woodwork surrounding the hot-air flue. There is evidently a serious defect here, to which I would respectfully urge immediate attention.

The Monroe School exhibits a slight defect in its heating arrangements, which has already been referred to. The cellar also contains at times a considerable quantity of water. This cellar I believe is not provided with a drain.

The ventilating apparatus of the Hancock Grammar Schools includes two traps in each room (except one, which has none at all). One of these traps is near the ceiling, and the other near the floor, both opening directly into a warm flue. This arrangement is an excellent one when properly managed, but productive of mischief and discomfort when mismanaged. In cold weather the upper trap should rarely be opened, except to cool off the room. The lower one should be open always. The examination showed several instances in which the lower trap was closed, and the upper one open. The cords by which the traps are controlled are all broken, and many of the traps themselves are unmanageable In the new portion of the building the ventilation is not sufficient for one-third as many pupils as it was designed to accommodate; the vents being too small, too few in number, and placed on the wrong side of the rooms. In Miss Williams' room (third story front), one of the two little outlets is boarded over.

The Hancock Primary Schools, located at Twelfth Street and Ely's Avenue, above Brown Street, occupy the most uncomfortable and unwholesome school-building in the section; unwholesome first from want of ventilation; secondly, from low ceilings; thirdly from overcrowding. There is no ventilation whatever, except through the doors, windows, and chinks; the average height of the ceilings is eight feet eleven inches, beneath which in three rooms, each 37 by 35 feet, there are crowded 520 children, giving to each child about sixty-six cubic feet of air space. cannot add anything to the force of this unvarnished statement except by mentioning the additional fact that within three hours after the opening of the session, I found in the lower room .3 per cent. of carbonic acid, in the second story .52 per cent., and in the third story .56 per cent., and this too while in the first story there were five windows open an average of 8 inches each; in the second story, six windows, an average of 12 inches, and in the third story, seven windows, an average of 8 inches. What the condition of these rooms must have been during those bleak days of the past winter, when the windows could not be left open, must be left to the imagination of those who did not experience it, to the remembrance of those whose duties compelled them to endure it, and to the feelings of those to whom it has brought sickness and suffering, and perhaps permanent loss of health. I respectfully submit to your Board, that we cannot too strongly urge the speedy removal of this school to some other and better building.

In conclusion, let me express the hope that my report may be found to aid you, at least in some degree, in your untiring efforts to promote the interests of our schools. I have the honor to subscribe myself

Very respectfully,
Your obedient servant,
PEMBERTON DUDLEY, M. D.

EIGHTEENTH SECTION.

GENERAL REMARKS.

As a résumé of the facts embodied in the accompanying reports, I would state, that during my sanitary inspection of the Public Schools of the Eighteenth Section, the truth of the following statements became apparent:

- 1. That not a single school-house had ventilating arrangements of the slightest use, with the exception of the new Finletter building, and even the apparatus of that very recently constructed edifice was wholly insufficient.
- 2. That in consequence of such deficient ventilation, particularly in cold weather, not only do the children and teachers become languid and unfit for study, but their lives are greatly jeopardized from the inhalation and re-inhalation of a vitiated atmosphere; my experiments showing, one room observed, to have contained, during the hour of examination, the dangerous percentage of 32 parts of C. O_2 in 10,000, and in several, the amount was found to be over one part in 1000.
- 3. That the only practicable method of securing a tolerable supply of pure air in the various rooms, was by the uncomfortable and hazardous resource of open doors and windows.
- 4. That the condition of the privies of the various schools, was, with few exceptions, simply abominable, and notwithstanding the fact that my observations were made in the Richmond school, on one of the coldest days, a fearful odor from the privies pervaded the entire lower story of the buildings.
- 5. That although the style of desks used in the various schools, may be good enough, yet, owing to the total neglect of proper care in placing children of different sizes at desks of heights suitable to them, they, in a vast majority of cases, assume habitually "faulty postures," both in sitting and standing, and many, likewise, from the same cause, become the victims of defects of the visual organs.

6. And that, finally, owing to all the before mentioned causes and some others,—absence of ventilation, improper selection of desks, "cramming" of studies, and ill-arranged school sessions,—the rising generation, although, perhaps precociously cultivated intellectually, does not promise to be a race of Spartan physique.

Such then, being the very apparent facts, I would briefly offer a few commonplace

Suggestions.

- 1. Every school-building, old or new, whether heated by stoves or hot-air furnaces, should be supplied with a ventilating apparatus, amply sufficient to render its atmosphere during school hours, especially in cold weather, comfortably pure, with all doors and windows closed.
- 2. The privies should be daily inspected by the janitors, and kept, particularly in warm weather, well deodorized by proper disinfectants, and what is called the "key system," should, as far as is practicable, be introduced into the schools.
- 3. Desks, of at least three different heights, should be furnished to every large class-room, and special care should be exercised by the teachers in properly locating children of different stature. The custom of changing seats every two weeks, should cease, and the old-time way of having the children occupy their class rank only while at recitation should be revived.
- 4. Finally, all "cramming" systems should be abolished. The double, daily school session should be replaced by a single session, with half-hour recess, and the children should all be dismissed by 2 P. M., thus enabling them not only to avoid acquiring the peculiarly American habit of rapid dining, but, also, giving them opportunity for that complete relaxation of body and mind, so necessary to the healthful development of all young people.

J. GILBERT YOUNG, M. D.

1000 Shackamaxon Street.

GENERAL SUMMARY.

Summary and remarks concerning Public Schools of Philadelphia, based upon the answers of physicians to printed questions, upon several general reports, and upon a chemist's report.

Formal reports upon printed blanks are made as to forty-four schools. The examinations were made in the winter and early spring, at different hours and in various weather, by eleven different physicians.

The request in connection with question 3, to report upon two or more rooms, has not generally been heeded. In most cases one room only has been examined.

The space allowed to each pupil is too small. The average of rooms reported is 143 cubic feet per pupil. The range is from 272 down to 66, in different schools. Even with efficient ventilation, the space should not fall short of 200 or 300 cubic feet.

The "sensible condition" of the air [3. b.] seems to bear little relation to the amount of carbonic acid discovered to be present. The exact percentage of the latter ingredient is stated only by two or three reporters, and in regard to thirty-one rooms in some twenty schools. Whether estimated by weight or by volume is not specified. The ratio of .56, or 56 parts in 10,000, reported in one room, is very extreme. In many rooms however the percentage is not extreme, as in those cases where it ranges from .05 to .10 per cent. The average for thirty-one rooms is .18 per cent. The examination of ten schools by a professional chemist, as given in his special report, exhibits an average of .1315, and a range of from .06 to .21 per cent. these last, and in nearly all the other cases, it is expressly stated that windows were open. Two analyses of external air showed the presence of .0288 and .03205 per cent. of C. O₂, the proportion normally varying somewhat with the weather and other conditions.

Light, [3c. and 3d.] though usually sufficient, is occasionally inadequate in particular rooms.

In considering the reported area of inlets and outlets, [3e.] it should be remembered that these are often obstructed.

From the reported temperature [3f.], we learn that the schools are very generally overheated. This is in spite of the almost invariably open windows,—which are a violation of the specifications made in the question. The temperature in individual cases reached 84°, 82°, 80°, 78°, and a number of times 75° and more. The only marked instances of the opposite fault reported are single temperatures of 58° and 60°.

Answers to Question 4, show that a score of the schools examined have no "system of ventilation" whatever. The others have various devices and appliances, variously described.

As to these "systems" being "in order," as asked about in *Question 5*, some fifteen affirmative and nine negative replies are given.

Question 6, is answered by a unanimous and emphatic negative. The general reports of several observers, and the report of the chemist, agree with the tabulated returns, in representing open windows as absolutely necessary to keep the air of our school-rooms tolerable.

In response to Question 7, pupils in nineteen rooms are reported "fresh," in eight "moderately fresh," and in a dozen "languid,"—often with additions, as "restless," "flushed," etc. This, too, in the presence of open windows. The operations of a stranger taking observations would have a tendency to arouse attention and dispel the signs of languor. This influence may have probably affected the replies to this question and the following.

A "bad posture in sitting" is affirmed in sixteen cases, and expressly denied in twenty-six.

An "erect" posture in standing is affirmed in about twentytwo instances. In thirteen the reverse is reported, while in many cases the pupils were not seen on their feet.

In response to Question 10, we find the desks designated as "Uhlinger's" in some twenty-five cases, and "Bancroft's" in

about a dozen. Several reporters describe them simply as "patent," "the usual pattern," etc. Opinions as to suitability are extremely diverse. One point however is often remarked upon, viz.: a lack of relation between the shape and height of the desks and the stature of the pupils.

In a dozen or fifteen instances, the replies to Question 11 mention "headache" as more or less frequent in the schools. Some seventeen answers are in the negative. "Sleeplessness" and "nervous debility" are each once named. Remote influences affecting health will be further noticed hereafter.

Question 12, as to bad smell, is answered in the negative thirty-eight times, and in the affirmative five times. Privies were usually the source of offence.

The cleanliness of cellars, privies, and drains,—Question 13,—is reported "good" in twenty-five instances, "bad" in thirteen and "fair" in six. Wet or damp cellars and foul privies are especially noted in a few cases.

General remarks, and matters not covered by the printed queries, are briefly noted upon many returns. Several gentlemen, too, have prepared reports upon the schools of a section collectively, or upon such imperfections of our schools as have fallen especially under their notice. Some of these are well worth perusal. A very valuable report by the assistant to the professor of chemistry in the Boys' High School, contains analyses of air from ten school-rooms, and from out of doors.

Some of the points covered by these more extended remarks and reports may be here noticed.

The atmosphere of the school-rooms is terribly bad, except when windows are kept open. Practically there is no other means of ventilation. When some pretence to a system exists it is usually wretchedly inadequate or wholly inoperative. Concerning the use of shafts, inlets, outlets, and valves, the teachers are usually ignorant or careless. Openings are choked with rubbish, boarded up, or kept shut by rusted valves and broken cords. In one building, air-shafts were altered into

closets. In several instances teachers and pupils were made "almost sick" by a temporary closure of windows for experiments.

The rooms examined by Mr. Thomson, the chemist, are said to be very favorable specimens of our schools, being all of recent construction. Even here, windows were constantly open. A very intelligent observer believes that some slight alterations in the ventilating flues of these newer buildings would render them operative and efficient.

This same observer states a fact often overlooked, when he reminds us that a very liberal use of fuel is necessary to any proper ventilation in cold weather.

Some school-rooms, we learn, are heated by close stoves, and in at least one, coal-gas escapes freely from the numerous joints of a long stove-pipe.

Although no question is designed to elicit information as to animal emanations in the close air of the schools, some expressions used by reporters are significant. "Foul," "intolerable," and "mephitic," are words suggestive of something more than carbonic acid gas.

The chemical report already mentioned, and one of the general reports, give clear expression to what we believe to be the true relation between carbonic acid and animal exhalations in their bearings upon the fitness of air to support respiration. As both impurities arise from the presence and the breathing of living beings, both will increase and diminish together, according as the air is repeatedly inspired, or freely changed and renewed. If, then, in a crowded room we find twice as much C. O_2 as in one less populous, we may infer the same proportionate difference in the organic emanations. Thus the first impurity serves, in ordinary circumstances, as a measure for the second.

Moreover it is probably true that the carbonic acid is a less noxious contamination than is the animal matter which it roughly measures. The broken down organic substance, given off from lungs and skin, in minute particles, in gaseous form, or dissolved in watery vapor, becomes when concentrated a most potent poison.

Dr. Hammond, in his work on military hygiene, calls attention to the symptoms described as attending the decease of the victims of the "Black Hole of Calcutta." These were not at all the ones characteristic of carbonic acid poisoning, but rather of profound animal poisoning.

It is not to be inferred that carbonic acid gas is not injurious. In the proportion of twenty parts to 10,000 it undoubtedly is very hurtful; and to be dreaded even in half that amount.

One source of practical fallacy, in measuring the organic impurities of school air by the amount of C. O₂, is liable to exist. A portion of the carbonic acid may come, not from the lungs of pupils, but from the heaters or stoves. In this case, of course, the animal emanations would not be proportionately increased.

The amount of watery vapor in the air of school-rooms, is stated only by Mr. Thomson in his chemical report. If the outer air be dry, or if a moist external air be carefully excluded, the proportion of moisture in the confined air would afford some indication of the extent to which it had become saturated with exhalations from the lungs. Otherwise, the moisture within the walls will vary with that of the external air. Of course, any inferences as to contamination, from the moisture of a school atmosphere, would be invalidated by the presence of evaporating pans in the hot air-chambers.

The analysis of air expired from the lungs, is highly instructive. It shows, by volume, 3.7848 per cent. of C. O₂, and 2.658 per cent. of water by weight.

Improper arrangement of desks and windows, whereby pupils have a glare of light in their faces, is often noted as productive of discomfort and of ocular disease.

A form of desk that brings the books too near the pupil's eyes, is undoubtedly, justly noted as a cause of near-sightedness.

Cellars are, in several instances, reported as undrained and offensive. We believe damp cellars to be fruitful sources of disease.

The privies of several schools are reported to be in a disgraceful condition. "Abominably and indescribably filthy" are the words applied to a group. In some cases, emanations from these enter the school-rooms through open windows.

Stables, in close proximity, render some schools unpleasant if not unwholesome.

Schools are sometimes located in buildings wholly undesigned and unfit for such uses. In the Hancock Primary School, we find 520 poor little innocents huddled together in three rooms, each 37 feet by 35 feet, and not 9 feet high. Windows, from five to seven in each room, were open from eight to twelve inches, while the tests showed the percentage of C. O₂ to be .30, .52, and .56. Space for each pupil, 66 cubic feet; outlet for foul air, none; system of ventilation, none.

Is not the reporter more than justified in his indignant protest against such abuse of our children?

B. L. RAY, M. D. 3509 Baring Street.

- QUESTIONS PROPOUNDED TO TEACHERS, IN REGARD TO THE CONDITION OF PUPILS, TEACHERS, SCHOOLS, ETC.
 - 1. Date of making report.
 - 2. Name of school and location.
 - 3. Number of classes, of scholars, of teachers, and of rooms used for study.
 - 4. Does the air get foul in the rooms, or too dry?
 - 5. Does the ventilating apparatus give you enough fresh air, or do you have to open the windows?
- 6. Can you by any means keep the air always tolerably pure, as well as warm enough?
- 7. How many rooms have windows in front of the scholars?
- 8. Of the other rooms, how many are lighted both from the side and rear?
- 9. How many rooms are cut off from a portion of light by adjoining buildings?
- 10. How many are sufficiently lighted in all parts, even on (ordinary) cloudy days?
- 11. How many scholars are known to you and the other teachers, who have weak or sore eyes, or near-sight, or other defect of vision?
- 12. Are all the desks and seats of one size in each room?
- 13. Have you any remarks to offer as to the merits of the desks and seats?
- 14. Have your scholars used gymnastics? and if so, with what results?
- 15. Do scholars or teachers suffer from headache, lassitude, nervous debility, nose-bleed, or other affections which may be attributed to circumstances connected with the school? Reply as fully as you choose, with accounts of any cases you choose to give.
- 16. What is the average temperature of one or two of your school-rooms—say four feet from the floor, in the middle of the room? State also the temperature at one foot from the floor, and at seven feet.
- 17. Out-door temperature.

- QUESTIONS PROPOUNDED TO PHYSICIANS, IN REGARD TO THE CONDITION OF PUPILS, TEACHERS, SCHOOLS, ETC.
 - 1. Name of school.
 - 2. Date and hour of day of examination, and state of the weather.
 - 3. Select two or more rooms, representing the better as well as the poorer part of the school-house, and in each state
 - a. Number of cubic feet of air to each pupil belonging to the room.
 - b. Sensible condition of air, and percentage of co 2-
 - c. Sufficiency or insufficiency of light.
 - d. Whether adjoining buildings intercept light.
 - e. Number of square inches of opening for inlet of air, and the same for outlet.
 - f. Temperature of middle of room, four feet from floor. (The rooms are not to have been specially aired for at least twenty or thirty minutes before making the observation.)
 - 4. What system of ventilation is employed?
 - 5. Is it in good order?
 - 6. Does it supply enough air without opening windows?
 - 7. Are the scholars languid, or fresh in appearance?
- 8. Are they in faulty postures,—twisted or stooping too much?
- 9. Are their forms erect when they stand?
- 10. What kind of desks are used? If a well-known pattern, merely state the name. Add comments on suitability of the desks and seats at your option.
- 11. Are you aware of headaches, loss of sleep, loss of strength, or other injurious results, traceable to circumstances connected with this or other schools? State your own experience as fully as you choose.
- 12. Are there any smells in the schools from drains, cellars, or privies?
- 13. What is the state of cleanliness in these places?





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(a)= 5	Sixth Stord, above Lombard	3.1	12	N. E. show	110		Sufficient.	u		100	60°	Cold air registers, flues 12x18, copper ted with fur- nuces in cellar.					Yes	Uhlinger's	Xo	No.	Piur	Shape of desks prevents standing erect in front of them .	Photo H L Grand, M D.	1871	Furnaces.
1 / - 1	Sorner Street, below Sixth	3.15 11		Mild	(207, 200) (165, 180) Av. 210	· · · · · · · · · · · · · · · · · · ·	· Insufficient,	Yes	None.	None.	700	As above			ļ				No	No	Good			187.0	. Furnaces
	1 s ust and Twenty-second Sts,		.so P.M.	N. E. snow	(202) 220 145) Av. 180	Good-W. O. C. O ₂	Sufficient.	No.	None.	(1948) 1 1008 1 1238)	66° 66°	}	. ya		Languid.	Yro.	No.		throther schools,	Yes.	4	Pulleys broken and outlets all the st. heading rooms by windows, temperature gas to foe? Summer winds bring privy "smell," Heated by stayes. Ah of one room "poisonous from privy smell,"	Calch W. Hor- uot, M. D.	t Parently t t parelinear 't	Stores.
η = 10 - η ματ.	cornount Ave, and Sixth Street		2	Rain	150		· Sufficient.	"		120		(Fines connected with the chimney.	Yes		Moderately fresh	No	Yes	Not good-patent, .	Frequent headach	No.		Scholars face light		1868	Hot Air
. 1 = - 1-	cf 4s 40	8.1 13	.30 A.M.	Snow	150	("Dry & oppressive," {C.O ₂ , execuse.	Insufficient.		и			Shaft connecting with the thimney.			Presh.			Usual pattern	Frequent head- acho. See 11- marks.) No		Reporter believes much injury to vision here comes from facing hight.	E. B. Cleve land, M. D.	180s	,
1 = 0.48: 5/5			10 "	Rain	1-7	("Bad," C, O ₂ , excess	Sufficient.	6 (2 comme)		[192 top. [192 bot.]	760	(Flues 10 x 12 from cellar) to roof.	}!		W 0, fresh.		Yri,	Patent—such as used in all Pro- mary schools.		No.		Communication	(West Orlean	1861	1
2 2 (Adams to 1944)	Garden Street, below Buttonwood		10 "	Clear	(250, 140)	C. O ₂ , excess	Insufficient.	below -		u	700	(Pines 6x16 with opening (at floor and colling.	}		Fresh,			11 11	No	No.		Offensive stables near by	(Wm, U, Grigo,	1861	
14 ** 0 - k Grat 0= * :		3.10 11	.30 11	44	(178, 101) Av. 167	C. O2 .00, .10.	Sufficient. } { Insufficient. }	Partly.	(444.444) (375,444)	(none,294) (291, 294)	{ 69°, 70° 76°, 64°	Flues heated by chimney. Traps near floor & coiling.	No.					(Uhlinger's and) (Bancroft's,)	No	No	Fait	Cords and pullers to traps broken and nodes. On outlet boards dates. Apparatus not intelligent managed		1808	
H D Granto .		3.12		1.4	173 Av. 207	(C, O ₂₁ , 20	Sufficient.	No.	168	168 168	72°	Heated flues with regis- ters near hot air registers (Warm flues in side walls	Yes.		14			. Uhlinger's	No	No.	Bolimote u wei	Bull Heat leadly distributed		1872	Vurantes.
H L To gold's indary		3.11	11		2 3	Clear & heavy (C.O16)	} "	"	68	80	760	Warm lines in add wais and registers in floors. Heated flues with regis- ters near floor, and beside	No.					. "	No	No	Good	Ventilators closed with raddsh or by out. Pract cally nothing but doors and windows.	Pemlerton	1867	Purness
14 J. M. 041 n Primary (* *)	Twelfth and Wistar Street		15 P.M.	"	(")	Good $\left\{ \begin{array}{c} C. O_{2r}, 24 \\ C. O_{3r}, 18 \end{array} \right.$	} "	Partly.	(173)	170 Some. 67	750 (800	ters near floor, and beside hot air registers. (Thud floor none, Warm)	Yes					N	Hendache	Yes	Bud Cotter doonprivies foul.	H H S A S A S A S A S A S A S A S A S A	Duffley, M. D.	1811	Тоци топосон
14 W. D. Kelly Primary	Wood Street, below Twelith	3.12		Clear and warm	(00)	Good $\begin{cases} C.O_2, .18 \\ C.O_2, .10 \\ C.O_2, .28, C.O_2, .32 \\ C.O_2, .56 \end{cases}$	-	No.	173 121 108, 108 178	96, 96 None.	73° 72° 70°	ter in each floor below.	No.					. "	No	No.	Fair	Ventflation as in Conract; third story opposited hot, with heat of renot surrounding flux. [Panger Every way unfit and mucholeonic 202 mpdfs in tooms, can b [37, 335, 846, 11m. C. D. measure		1808	Hot Air.
14 Han o'k Primary	Twelfth Street, above Brown, Muribore Street, above Thompson	3,15 11		Pamp	(13) Av. 66	Close & warm C. O ₂ , 52 (C. O ₂ , 30 (Vitiated)		*	178 178 138		725 740 W. O.	None			(W.O. moder-)	Yes		See remarks.— 1	No	No.	"	with 6 to 8 windows, 8 to 12 inches open in one room.		1811	**
Youghan Girls Grennbar Morris Secondary	- Palmer Street, above Thompson -		II A.M.	Clear and mild	120 201	{ Vitiated, C. O ₂ , .0677.	Insufficient.		None.	None.	75°	Non-			{ W.O. moders } { attely fresh }	105.	You,	See remarks.— } Ublinger's.	Other schools; yes	. No.	Bad	Desks poorly adapted. Light in front and in year of pupils.]]	RUST	
1: Shackamaxon Secondary	- Alten St., below Frankford Road			Clear and must	201	{ Oppressive. C.O ₂ , 0769, Fuir. C.O ₂ , 06.	Sufficient.			168	100	Four shafts with no practicable openings; builders	Note				7/0	Out of dute	Son manually	No.	tional	"Abomimbly and indescribably fifthy privies"		1579	"
15 Kensington Secondary	Montgomery Ave., ab. Richmond			Snow	90	C. O ₂ , .06. Chore, C. O ₂ , .128.	! "		None.	Unused.	700	Shams.			16 46		No.	Uhlinger's	0 0	No.		and the second s		18 ii)	1
15 Primary No. 1	41 (1 (1		3 P.M.	3	118	Close and Foul	<u> </u>		- 11	(Unnsed.)	740	None			и		61	ь	и и	No.				1817	
18 Primary No. 2	Mariboro Street, ab. Thompson	2.17	**	Clear	101	{ Pair. C. O ₂ , .051.	1 "			None	730	Хоно			11 16		**		Other schools; yes	No.	E			Isos.	
18 Primary No. 4 =	. Allen Street, helow Shackamaxon	2,16			78	Close—bad smelling.	1	Partly.		168	750	None,	Nottl		(Verylanguid) (and restless.)	No.	Yes.	Out of diste	See temurks	No.		During test for C, O ₅ (windows being closed) several pa- pils became "almost sick " from confined at	J. Gilbert Young, M. D.	1800	
1: Primary No. 6.	Palmer Street, above Thompson	2.23		Cloudy and ralle	92	Yory foul. C. O ₂ , 105,	} "	No.		None.	700	None		16	{Finshed and } { languid. }		No.	Uhlinger's	Yes	No.	Grant	Ventilating shaft aftered into clearts	Young, M. D.		
18 P. marry No. 7	Olis ami Belgrade Street	2.25	11 A.M.	ie re	140	(Very foul. C.O ₂ , .11,	} "				8.20	(See remarks). None			Very languid.	Yco.		(Bancroft's, and) (old style,)	Yes; See remarks.	No.	T	# # # #		1808	
1º Primary No. 5 .	, и и и	н	3 P.M.	Bain and warm	108	Very foul. C. O ₂ , .093.	}	44		6	65°	As above			и ь,	٠.		Bancroft's	Šee remaiks	No	1 0	All the Schools in this Section examined by one man Not one but the "Embyley" has ventilation worth		1808	
18 Primary No. 9 .	Montgomery Avo. and Gaul St	2.24		(Cloudy,damp) [mid warm.	183	Close, C. O ₃₀ ,058,	}			178	709	Shaft at side of hot air flue, with openings only at floor.	Yes.		11 11			и	As in No. 6	No.		All the Schools in this Section examined by one man Not one but the "Finietter" has would already and we alter teachers and punish the Especially in cold we alter teachers and punish to the fields, the aft fieling very high roundy inpurse, C. D. in Bi rouns averages, 4011.		387.0	Енгласы.
15 T. R. Finletter secondary	и и и	13	11.5.31	Damp and wars	114	$\left\{ \begin{array}{c} \text{Chose,} \\ \text{C. } \theta_{21} \text{ ,06.} \end{array} \right.$	}			178	810	41 10						4		No				197.1	Furnaces.
15 Primary No. 11	- 1 Huntingdon and Edgement Sts	2.18	**	Hear	180	$\left\{ \begin{array}{c} \text{Close and Foul,} \\ \text{Clog, 11.} \end{array} \right.$	}	0		None.	689	None			Languid,			Uhlinger's	See remarks	Yes	Bad ,	etery even to cold weather. Siyle of deske uradapted to size of pupils, causing lead pear ture and impaired yields. These ranges, with two long study hours, are greatly in- pairing health.		1865	
15 Primary No. 12			3 P.M.	Clear and cool	132	$\left\{ \begin{array}{c} \text{Tolerable}, \\ \text{C. } O_{20}, .0695, \end{array} \right.$	}				60°D	Хоне			Moderately fresh			и	15 66	No.	1	pairing health Single seedons—to shorten home and prevent the belting of dinners—and correction of faults above noted, are need.		F98.1	15
25 Henry W. Halliwell Grammo	Frankford Rd, & Allegheny Ave.	3,0	11 A.M.		200	C.O ₂ , "in slight exerse	5 "		540	210	680	From the bottom of room tuther than from top.	Tes.		Fresh.	Yes.	Yes	Suitable; Bancroft's	Nu	No.	Good	Heating apparatus wholly implemente. Registers open at height of children's heads. Some mount bady evonded		1472	(See romarks) Equaces
25 Sherman Grammar and Secondary	Frankford Road and Somerset St	3,31	3 P.M.	Clear	120	Tolerable, C.Og, "excess.	}		96	None	739	Cold air fine in floor stop- ped up.	No				**	" Uhlinger's	No	No.		Heaters not said. Warmed by stores		1864	Stores
25 Barton Secondary	Frankford Road and Bucklus St	4.1.	2	10	136	Guod. C.O ₂ , normal.	} "		None,	7	760	Foul altregisters neaveeilin	# ······		16	No.	44	" Bancroft's		No.		"Rooms large, sirg, and well realibilitied." Rec 3d and 4th			But Air.
25 Carroll Primary	Salmon Street, above Somersot	. 8.11	10 A.M.		205	Vary foul	, "			None.	700	None			(2d Krosh	Yes.		Suitable; Uhlinger's (Suitable; Uhline)		No.		Afr. at times almost implifite from animal schnicitions. Fellow foul. 684 selects in two resons. Building old and psorly constructed. Air almost mephilic in some rooms. Itself small train besters. Decks face the light, Inadequally warmed, Heaters would promignous.	Thes. H. Sher-		M
25 Irving Con-olidated	Bridesburg	4.5	11	Plear	108	{ Very fonk, C.O ₂ , large excess, Great excess.	1				700	None			(2d, Fresh.) (1st, Languid)	No.		Suitable; Uhlinger's. See for marks.		Yes.	Bud		wood, M. D.	1817	Енгичем,
25 George B. McCiellan Secondary 25 Randolph Consolidatel	Kicetown	31.5	3 1,31,	u	128 {(1) (2) ¹⁰ } Av. 85.	Great excess.	3		80	80	750	Cold air register near floor	No	Xo.	Languid.		Yes.	Sultable; Uhlinger's Sultable; Uhlinger's ger's, """""""""""""""""""""""""""""""""""			Fah	Property & not well drained		DSBI	Hot Air.
25 Bayard Taylor Consolidated	Turner Street, above Vennugo		0.15,31.		(116, 55)	f Phoses,	1		Nous.	None.	650	None	Yes.		Fresh.		и	Bancroft's.	{ Hendache and { nervous debility.) No	ran			typn	
25 Boudinot	Indiana Avenue and D Street	3,9	11 A.M.	Cloudy	116 106 80—Av. 93	{ C. O _{th} excess. C. O _{v.} excess.	1	11	256	180	7113	Registers near the floor	1 th.	.50	Fresh.	Yes.		Bancroft's	No	Nu.	Good	In upper room temperature was sit's Some rooms are rowded		gene!	.,
29 Edward Gratz Primary and Second		45	10,45	16	100, 80—Av. 93	*			{"Heated air." 288 }	288	700, 860	Ealer's	15	şt.	2	7	ш	{ Not suitable—}		No.		No proper adaptation between size of deeks and of pupils, to rendering positions constrained and ancomprehistants	W. H. Warder,	1871	Furnaces.
					Total average, 145			,	288	200	10-100							(Uhlinger's)) rendering positions constrained and nucommetable)	(31, 1),		
* C. O. is here expresse	ed as called for by the question-	-in per	centuge.	as "Kansingt-		O ₁ .128 or 122 of	one ner aunt	OF 08 PM	no aonaman	In annuaces	J 19 A	erts in 10.000. "W	7 O 11 io 20	sittan urbay	, vonovtos divo	ata attentic	on to the f	act that windows a	ro ones I	When differ	rent rooms are	reported upon, the upper rooms are placed above	middle and lo	wer. Averag	ge in brace.

^{*}C. O₂ is here expressed as culled for by the question—in per centage, as "Kensington Secondary" C. O₄. 128 or 1000. When different rooms are reported upon, the upper rooms are placed above middle and lower. Average in traces.

The principal points tabulated under General Remarks will also be found in my "Summary and Remarks."

When different rooms are reported upon, the upper rooms are placed above middle and lower. Average in traces.





nucins, keep pure as well ave windows dars?

TEACHERS SUFFER E, LASSITUDE, NER-NOSE BLEED. OR WHAT IS THE AVERAGE
TEMPERATURE OF ONE
OR MORE OF YOUR
SCHOOL BOOMS?



GRAMMAR SCHOOLS.

SCHOOL HOUSES. NAMES OF PRINCIPALS NAME. LOCATION. NAME.	Dote Day! Some Day of Chaire of Naking the Second of Chaire of Naking the Second of Chaire of Second of Chaire of Second of Chaire of Second of S	do you have to open the St. Windows?	the Air referrably pure as well are wram enough? How many remain have similared in their area of the Schales. Hew many remain are lighted from the wise and played.	rooms and lings? Hings? Cooms are still parter?	Townsay Scholar:	OFFER AS TO THE MERITS OF US:	DO SCHULARS OR TEACRERS S PROM HEADAGHE, LASSITUDE VOUS DEBILITY, NOSE BLEE ANY OTHER AFFECTIONS S MAY BE ATTRIBUTED TO CI STANCES (ONNECTED WITH SORHOL"	E, NEH- EEB, OR WHICH	TEMPERATERROY OR MODE BY Y SCHOOL ROOMS?	ONE
	Boys March 1, 1875 14 675 17 14 Notoften	. Have to open windows We can ;	generally. All 9	None All 24 v	weak, 25 nest righted They are	I have not No .	Not to my knowledge	155	5- 106,2-7 06,5-7	360 1
Shouth and Perland Annua. George W. Feller,	Girls March 17, 1875 11 640 13 11 Very foul and dry	. " " Cannot				Those used are uniformly defective All Inrig	the pupils practice regulary. Some complaint of headache and other	debility 68	69 69	52 1
William Brognam II 1011	Boys Feb. 9, 1875 5 241 5 5 Not loul, but dry Oirls Feb. 26, 1875 6 230 6 Font occasionally	Open windows mea-rountly Yes	All None	9 All	Twenty-three (Seniorelass nucle)	Well adapted to purpose intended	te a week - 20 minutes't		62 58	
W N	Loys March 3, 1875 6 280 6 6 Foul and dry	Obliged to onen windows Yes Dalle ult	dt to keep)		coar sighted, 18 weak { Senior class single } deaks, bal. 1 size. }	(less	for the last four years		69 72	
A. M. Ryan, 2 1860 0	Girls " 15, 1875 7 320 7 7 8 8 8	weather	or.	4 1		very good. Uhlinger pattern, backs are too straight No	Some seventy-one complain.		65.72 72	20
Steam Va V 3 1874 Steam Va V 34 1874 Steam	Girls . 15, 1875 7 385 7 7 Frequently becomes dry		n n All 2	at ti		They are comfortable No.	Both scholars and teachers complain of	f hendache. 60	0 71 75	42 5
A. A	Boys 1 15, 1875 6 280 6 5 Frequently foul		old weather. All 2	61 66	Six " "	и и Хо	4 h 4 H		1 74 75	42 6
Hot all	Girls " 11, 1875 5 223 5 5 Not often	Ventilators too near certing. Ob- We can elliged to open windows. Ventilators useless Only in o	n except on } 3 2 we occus ns } one room 3	2 3 5 w	weak, 10 near sighted . " "	See remarks*	See remarks)	year from)	5 65 69	16 7
and a School old break to the total and the school of the	Girls " 15, 1875 1 179 4 4 Gels very fool	Obliged to open windows No.	All 2	2 A11		None Su Su	quive, j (allove complaints. Both scholars and tenchers have headac	ielio	8 t4 (8	
	Boys " 8,1875 5 164 4 4 " "	Cannot open windows on account No	4 2	2 3 1		Well adapted to the popils No .	(Both scholars and teachors have head account of impure an.		D 36 (60)	13 10
	Oirls March 15, 1875 4 168 4 4 Toodry	Have to open windows	difficulty 3 None	None All	Fifteen cases " "	No complaint	Not often		6 661 3 65	
	Boys " 15, 1875 4 172 4 4	(It does not by any means, Obliged) (We end	deavor to 3 None	All "	Fourteen cases " " Ninotosu cases Yes	Desks miller too low	-beneficial		0 68 65	
	Hoys " 5,1875 5 204 5 5	to open the windows. keep the	he air pure 3 None	None "		larger girls.	No special case			36 11
South West in Girls' Stammar School . N.E. cor. Seventeenth & Pine Mary J. Fales	Girls " 24, 1875 6 270 6 6 Generally good		with care 1 4			None	" Nune,		0 70 70	
	Boys " 11, 1875 6 225 5 5 Often foul	Ventilation bad We cannot	not 1 4			None	These complaints do exist		0 02 14	
	Boys Frb. 24, 1875 4 160 4 4 Apt to got foul	No ventilating apparatus, depend	14006		venty scholars.		little		0 67 72	
L ST STS : Girle' Grammar School " S. McGonegal	Oirls ' 26, 1875 5 205 5 5 Boys March 6, 1875 5 216 5 6	Ventilating apparatus insufficient In 2 room No ventilating apparatus; open Not in co	oms only 1 1			Foot-rest would be an improvement No . They are comfortable	In the rooms where the centilation is a		67 67 68 67 67	
I year & Girle' Grammar School 9 1860 a	Girls Feb. 16, 1875 # 267 6 6 Too foul		as to be im-1 2 4			And the termination of the termi	y ase arm exercise. Not to any great extent,		101 2 171 2 85	
N. W. Giris' Grammar School	Girls Murch 11, 1875 8 239 8 8 "	Obliged to open windows We cannot	nut None 6	5 4 5	32 " " "	Bancroft's dosks; too high Yes-	-with profit Both teachers and scholars suffer		8 081 11.1-5	
_ N W Eops' Grammar School	Boys Feb. 24, 1875 6 252 6 6 All too dry, 5 rooms foul	" " All but o	one 2 3	2 All but one, 18 m	near sighted, 40 weak	None No.	Two teachers complain		H 65 68	
N. Liberties Giris' Grammar School Third Street, below Green A. Claudine Roy 11 1870 " N. Liberties Boys' Grammar School " "	Girls 5, 1875 5 206 5 5 Change the air occasion-)	n " " Yes Yes	3 2	2 All			y have I think not		00 01 71	
	Boys " 1, 1875 5 226 5 5 Foul	Never (No; on)	1 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	None 6	Eight " Lighton All one size	Not sufficient surface	cs a day for 15 minutes—) Dandoche from to		65 67 68 15 50 56	1
Wyoming Boys' Grammar School " William Stephens 13 1868	Boys " 25, 1875 5 257 5 5 Sometimes	Wa ventilate by opening windows 5 Notalus	ways warm All 2	" All	Sixteen cases They are	(for the arms where space will permit.) (exc. Single desks	cellent results. No		00 62 67	-0
	Girls March 12, 1875 4 104 4 4 No	We open the windows We can	None (. 4	Seventeen " "	In three rooms the top of the desk is \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	the the first th	60	92 84 70	
. Monroe Boys' Grammar School	Boys " 9, 1875 4 166 4 4 Generally foni	" Occasione	naily 2 2 1 in the lear. 1 6 side, 1	Generally 2	п н		-satisfactory results	11	ls 64 70	
H neek Gir's' Grammar School Fairmount Ave, ab. 12th St. A. E. Williams	Ohls " 6, 1875 7 292 7 7 Foul		lty rear.	1 6 (8)	Nineteen a near sighted, I sore \ a	Prefer the Unlinger pattern; much Yes- more confortable. Unlinger desk is far superior to Ban-	—perceptible results		8 701 72 621 65 67	
	Boys " 9, 1875 12 245 6 6 "	Ventilators boarded up	tenr.	None 1 (cy	Seventeen "	croft's.	no behencial results. In two dividons they glo, because 50 and crowded into a spate not large one	Feldlihen 1 g	0 62 62	
	Boys " 11, 1875 7 320 7 7 Some rooms get foul	" " We can		. 7		*****	e not	augh.)	6 117 118	
33 Jeffers - Boys' Grammar School Fifth, above Popher J. T. Sickel 16 1842 of /	Boys " 11, 1875 7 323 7 7 Some rooms fool others dry.	(Ventilating apparatus scanty, Ob.) (Difficult	It in cold i = 1) 6 (17)	ith one eve		ome extent-boneficial results. Not to a great extent	0	1 70 71	
	Girls 4 11, 1875 6 288 6 6 { Sometimes too foot, rarely } { too dry.	Necessary to open the windows We can.		None All {Sil	weak eyes.	Good as any in use	tited extent	blood, but I	11 00 17	41 31
S A-Marie III	Oirls " 11, 1875 5 206 5 6 Foul	Must open windows. {Not on theys.	very cold 3 2		Fourteen " " "	We have the Utilinger isonch, scating two, not as good as chairs In two rouns the desks are too small and too low 's In two divisions have been in use 30 years, others prefty good. Years, others prefty good.	nerry—no particular results. only 2 attribute either to attendance of	nt school. 1	9 100 107	31 35
	Boys 1, 1875 6 284 6 6 [Apt to get foul, heaters]		1	" Fivo+	Ten " "	In two divisions have been in use 301 Cor	nstruction of school prevents CFenchers make no complaint; occase practice of gynnastics. I scholar has to leave the room from ne	sionally a 0	RI 15 15	22 37
	Girls " 22,1875 6 328 6 6 Fort in two rooms	il by opening windows.	ays (1 prin'Ps) 4	a An for	weak, 10 near sight-)	Sents are not wide enough Aut	at an Only in rota mays when heat enunot be	be had	'rlu cipain banni'i So preurit kept	weeks as
\$ W. H. Huzier Girls' Grammar School . Mascher and Dauphin	Girls " 13, 1875 6 290 6 6 The sir gots impute	The ventilating apparatus does not afford sufficient fresh and.	cases[] 4 2		н и	Quite comfortable and convenient	es; since November; advan-} ge not perceptible. ge not perceptible. gey have not—short inter-i (Such affections have not been expected.)		See FOREST LOCAL	
4 H. H. Halle, 1991 Glow half Colored	Boys " 10, 1875 6 265 6 6 Semetimes foul	Sometimes open the wandows I believe	(front,		Ten Senior class Single Eighteen They are	(for some of the boys.) Pri	ision instead.	Honced (c.)	70 70° 72	
6. 241.12	Boys 3, 1875 5 220 6 5 It does	Frequently compelled to open windows 1 : annot Windows must be used	of windows Fronttwo None		Eighteen They are Twenty-eight 4	No.	None specially		66 68 76	
55 Andrew and Manager and Mana	Boys " 1, 1875 6 231 6 6 Frequently gets foul	(Ventilating apparatus. Windows) (In all ex	vcept low-) 1 d from sade	п н	Ninoteen " "	Besks in sixth division too smult	rey have; have to stop for } They are but few cases	7	711 71.8 71.8	27 43
ger P rf: Ar v [18] Grommar School., " " " M. A. Todd 20 1864 0	Girls ' 5, 1875 6 290 6 6 Fonl	Open the windows (Yes, by windows	ision. y lowering 1 1	о и	Nineteen 1 room single desks	One room's secondary desks too small Ye	st; uant of room prevents Mnny cases	19	90 02 67	
20 -2 3,012 10 201		Have no ventilutors. Open the We think	ik we can 2 2	" "	Four They are	Our furniture is thirty years old, and No;	They do not. (Tenchers and scholars suffer for the pure nir, and in winter with the cold.	in want of I	00 01 05 84 00	
Management Circle Grammar School " " " Bohert T. Murphy. 21 1845 The property of Crammar School C. Eittenhouse St. Oermant'un E. Burrough 22 1844	Boys " 12, 1875 5 170 4 4 Becomes very foul	Insufficient ventilators. Open the 1 No.			Thirty Yes	The desks are too straight and close 1 No :	annule play ground. [pure air, and in winter with the cold.		1 17 70	
31 111 111 111 111 111 111 111 111 111	Boys ' ' ', 1875 5 - 220 5 5 "	(windows.	1 3		Thirty-four They are		te of them do-beneficial Yes		18 70 05	
	Girls " 12,1875 4 177 4 4 "	. п и п и Уся	A11	(0.0)	Thirteen Yes		We do not hear of any completed		9 73 73	
ATTACA AND A POPULATION OF THE	Hoys " + 6, 1875 4 170 4 4 "	4 4 0 " No	" None	None "	One "		as a regular school exercise. Teachers suffer; more bleed and uncomin		0 07 09	
Bennort Boys' Grammar School. Ferty-first and Oregon J. H. Sides, 24 1868	Boys " 11, 1875 5 270 5 5 "	Generally	in all tho)		Four	(Tou	e, except playing in the yard. No, I think none		0 07 08	01
. Draw Gill	Girls 22, 1874 6 200 6 6 6 Table 1 20, 1874 6 200 G 6 6 Toolse; in accuss facing the	west we are obliged to endure the foul air an Have to open windows	and cold. All All	. 3	Twolve de Ten	They	y bays—heneficial			49 53
Halliwell Boys' Grammar School " " Edgar A. Singer	Boys March 25, 4875 4 169 4 5 Impure but not too dry	. Windows occasionally opened	lantly, it is) 1 "	" All	Elevon "	The scats and backs do not conform to the shape of the buly.	ome extent—good results I know of no cases	бя	70 72	
E. M. Stanton Girls' Grammar School Seventeenth and Christian. E. Christopher	Girls Feb. 23, 1875 7 , 314 7 7 Foul	{Ventilators do not admit enough } Yes	by stema.) 3 3	A11	Twenty	No a	perammedations	60	70 70	
E. M. Stanton Boys' Grammar School " Moses Pierre	Boys " 10, 1875 6 272 H 6 No	We lower windows Yes Yes	3 2	None 2 (bli	near sighted, one !	No remarks	to any great extent. Teachers and schobus beauthy—no circu	Unetances 46		12 56 20 57
57. Newton Girl, Grammar School	Girls " 10, 1875 6 261 5 5 Becomes dry	Ventrators instancient. Open the Generally	Пурше 3 2	All a	Twelve "	Deaks too high for small boys (To a	limited extent—not satis- t		72 78	
2. R-ynolds Boys Grammar School Twentieth and Jufferson	Boys March 5, 1875 7 306 7 7 Poo foul	Yentilators do not admit enough Cannet Yentilators do not admit enough Cannet Yentilators, compelled to open Not alway windows.	70.ys. 3 3 on side (4 side. 1)	1 1 100	ine near sighted, 39)	(Want of adjustability of desks to size) of jupils the great defect. Smallness of space between the disks No	Xo		66 72	
. Reyno ds Girls' Grammar School " M. Helen Burrows	Oirls " 5, 1875 7 300 7 7 Both	Compelled to open windows	1 {4 side. 1}	7 To	eak eyes, en near sighted, 11} eak eyes.	Smallness of space between the desks No communication scholars.			EG 08	35\\\ 2 60
*th Sect. The necessary support to the back, which scholars require when not eng god in writing is not afforded by the desks and seats in use in our school-rooms, and from school	sithout the protection of the outer garments which they wear	r to for promotion. With others, wi east reaction has been such that for	who have for a term been thus or months they have seemed to re	overworked, the oth	ners more expert in the process of ads of parents. They need not enco	'cramming." The remedy does lie in	the \$13th Sect. If position of desks vere changed, but **17th Sect. They are narrow, incomfortable thisth Sect. In the Senior Class obliged to lie	henches.	out one.	

The accessary apport to the back, which scholars require when not surround and a form school. Allow a reverse in the school soon, and the scholars, and the scholars of the surrounded and the scholars of the surrounded and the scholars of the surrounded and the scholars of the school soon, and the scholars of the school school school soon, and the scholars of the school schoo





1	теаня,	RS OR TEACHERS SUFFER ADACHE, LASSITUDE, NER- BILITY, NOSE BLEED, OR	TE OR	MPERA	TURE OF	ONE	
	Can you, by any the Air tolerably	ATTRIBUTED TO CIRCUM- CONNECTED WITH THE	1 ft. from floor.	4 ft. from floor.	7 ft. from floor.	Ontside.	Numbers,
F. !		scholars suffer from headache)	52° 50	53° 53	58° 60	20°	1 2
)-}	_		58 58	61 60	65 64	50 20	3
	Not always Not in cold v		52 55	56 55	58 50	23 23	5 6



SECONDARY SCHOOLS.

	1																				
SCHOOL HOUSES.	NAMES OF PRINCIPALS.	SECTION. WHEN BUILT.	HOW HEATED.	SEX OF SCHOLARS.	Date of Mcking Report.	Number of Scholars Number of Touchers.	DOES THE AIR GET FOUL OR TOO DRY?	Does the Yeathlating Apparatus give anough fresh Air, or do you have to open the Windows?	Can you, by may means, keep the Air tolerably pure as well as warm enemph?	Low many rooms have whelews in front of the Scholars?	How many rooms are lighted from the side and rear?	How many rooms are cut off from a pertlen of light by ad- joining buildings?	Howmany rooms are sufficiently lighted, in all parts, even in cloudy weather?	How many Scholars have Weak or Sore Eyes, or other defect of Vision?	Are all the Dods and Souts of any Size In each room?	HAVE YOU ANY REMARKS TO OFFER AS TO THE MERITS OF THE DESKS AND SEATS?	HAVE YOUR SCHOLARS USED GYMNASTICS, IF SO WITH WHAT RESULES!	DO SCHOLARS OR TEACHERS SUFFER FROM HEADACHE, LASSTUDE, NER-YOUS DEBILITY, NOSE BLEED, OR ANY OTHER AVEFERDAY WHICH MAY HE ATTRIBUTED TO CIRCUMSTANCES CONNECTED WITH THE SCHOOL.	Темен		Drone
																				ļ-s	ō ×
Wiscone Girls' Secondary Scios L Second and Reed Streets			Hot Air.				Extremely foul	Obliged to open the window : Have no ventilation,	(is impossible.)	5	3	None	All	Twelve	They are		No scholars are allowed recess	See remarks 6	32- N	30 580	200 1
North a Boys' S condary School Sixth, below Tasker	Kate A. Deveney	. 1 1537	**	lloys			Always foul	Open the windows	is impossible. (Always impure.) (never coul 'thi, j	3	1	**	st	Seven	P1	No remarks	(They have; telerably good re-) sults-prefer to cost.	(Teachers and wholars suffer from healache)	50 50	3 60	30 2
3 50° Secondary School	Mary E. Elsea	. 1 1871			Feb. 12, 1875		3 It frequently does	Obliged to open the windows	Impossible	·	{ None }	**	11	Two	34	Those of the second and third divisions } are very much dilapheted.		Kous	58 0	il 65	50 .3
Wharton Boys' S wealary School Fifth St., led. Washington A		2 1843		Girla		5 361 5	6 Both	(nows have to be opened.)	Cannot	311	(no rear)		**	Twenty		(pleased with them.	Cocasionally—parents do not inpprove of their use.	The second second second second	88 60	0 01	20 4
6 Wharton Girls' Soc colary School " " "	Ellenor E. Sandgran		"	Bays	" 19, 1875	5 289 5	Gets very foul	Required to open windows	Not always	2	3			Nine near sighted	"	Not any	No-havo recess		52 54	n 59	23 5
*7 N 3 Boy r Securitary School Temple Street, ab, Twelfth		0 1845		Girls	" 19, 1875 March 11, 1875	5 255 6	6 Recomes faul	Must open the windows	Not in cold weather.	3 Both	2		Both	Six near sighted Four boys	.,	They are comfortable			65 57	5 50	23 0
· Washington Girls' Secondary School Carpenter, above Ninth		2 1871	in .	Girls			Not if properly ventilated,	No ventilating apparatus, must open the windows. Have to open the windows	(Except in ex-)	Tiogra	9	None	All	Four toys			They were not beneticial in all)	Not in consequence of school atmosphere	No Ti	Chor mone	eter 7
8 Washington Boys' Secondary School 6 6	Mattie Caulk	2 1871		Boys	n 11 1876	5 904 5	When windows and doors rlosed, too dry.	Not by any means necessary to open windows.	Except in ex- tremely cold weather.	All	3 side	Ziotto .	3	Eleven	h.	Bancroft's dosks are in my school and)	They have not—they have	W 0 K 6 0000		4 "	8
F. Ether Boys' Secondary School Christian, East of Second.	Margaret Ritter	3 1869	- 6	Boys	" 10, 1875	4 173 4	l Foul	The windows must be opened	(By opening the)		4 from si-le		All	Eight	16	(are superior to any other.) Not any	(br + ×.) They have not.	Occasionally			9
:: Fletcher Girts' See adary School " " " "	Kute Justus	. 3 1869		Girls	n 24, 1875	4 204 4	4 4	а в н	(windows.)		l side & rear	1	-0	Thhty		1	they have not				A 49 10 38 11
12 Lyons Girls' Secon lary School Catharine, above Tenth	M. A. Field	. 3 1951	0.5	Girls	" 3, 1875	4 174 4	4 The air becomes dry	Obliged to open the windows		15	All on side	None	£4	Not any	44						60 12
†15 Union Girls' Secondary School Seventh, above Christian	M. T. Green	. 3	1-	(Hrls			Foul at times	н в в	Yes	4	2	54	4	Fourteen		Not any	1 Becess for ten minutes—bone-1 (ficial results.) Not from local causes. One more gas escapes)			4n 13
#14 Union Boys' Secondary School 6 6	M. J. Muoney	. 3	и	Boys	" 8, 1875	4 201 4	Foul	14 14 15	Two rooms cannot	4	2	2 front	2	Six		н	n n n	Headache caused by gas from stoyes.			40 14
25 Binggold Boys' and Girls' See'y School. Eighth and Fitzwater	Mary E. Helmbold	. 4 1831	\$4	В, & С.	12, 1875	4 231 4	Two rooms got foul	в и и	Not always	A11	None	None	All	Fourteen		The desks and seategive satisfaction	Yes-with good results	Vec; in the room occupied by the third division	68 7	70 73	37 15
16 No. 2 Boys' & Girls Sec unlary School. Twelfth, above Fitzwater.		. 4 1868	64	B. & G.	" 8, 1875	4 244 4	4 Not if properly ventilated	Always have to open windows	extremely cold	10	(All from)		"	Thirteen		Deaks and scats very comforfable	They have-1 think they are [beneficial.	They do not	60. (67 . 67	41 16
17 No. 3 Boys' and Girls' Secondary School Fifth Street, above German	n Maggin Costo'lo	. 6 1874				4 227 4		It does not. Must have windows open.	Can by opening to windows & doors	None	5 from side	1.5	11	Thirty-seven		4 4 4	Have not	Not any positive cases	53.10 01	0.10 01.0	56 15 17
15 Wharton Boys' S condary School Third, below Pine	S. Bitter	5 1871	Hot Air.			4 181 4		Have to open the windows	By op'ng windo's, exc'te'ld weath.	All	1	11		Fourteen		Not uny	Have not-exercise in the yard.	Yes			38.6 - 18
19 Wherton Girls'S ordary School " " "	··· Anna Heppand	. 5 1871	Pr.	(Hirls		4 176 4	Get too dry, occasionally to foul.	(The windows constitute our only)	4 4	14	1		"	Eighteen	"	Seem very comfortable	41. 11 44	Yes		1	0.2 37,8 10
2 Jos. Forten P 45° A Girls' Sec'y School. Sixth, below Pine	Anna Reed	. 5 1871	"	п. & О.	" 8, 1875		3 Air very font	vertilining apparatus.	Panaot	2	1	14	in in	Noge	11	They are well suited to the scholars	No-have no facilities	No complaint			1 138 20
21 N. E. Boys' Secondary School Crown Street, above Bare		. 6 1861			Feb. 25 & 26, *75		At times air becomes foul	(ventilators.	Ye4	3	(1 side) (1 S. & R.)	2	3	11 n'r sighted, 6 sore eyes	All ruousexcept one	They are confortable	They have - 1 prefer recess	No			1 10-40 21
2. A. E. Old Severally September 11 Comm.	M. C. Mead	n 1861 7 1838			Murch 5, 1875	5 211 5	Neither	Upon windows		3	All sides	1	-1	Twenty-eight	They are not	(in use thirty years.	Yes—beneficial results	No special case			motor 22
		7 1838	"	Boys	25, 1875	4 191 I 5 9 294 5		Have to open the wind ws	Cannot	2	- 1	None	4	Three (11 weak, 13 sure, 3)	In two	Not sulfable to scholars in two rooms	Have not	Notes			1 21
24 No. 2 Boys' Secondary School. Seventeenth and Fine	Mary J. Jackson	7 1859	.,	Boys Girls			4 Mostly too dry	Obliged to open the windows	No	1	(28 & R.)	1	4	(near sighted)	1 cs	(Primary school desks in (we rooms too)	You have Balada and to	Aolie			1 (1 24
2 No. 4 Girls' Secondary School		7 1857			Feb. 19, 1875	9 100 4	The air gets fonl		Yes	2	2 front	None	All	Fifty-seven		i small for many pupils. They are well adapted to their purposes		Do not know of any coses			9 20 20
P. No. 5 Boys' & Giris' See'y School-Col'd Ohio Stroot, ab. Twelfth					March 8, 1875	3 260 4	Very foul	There is no ventilating apparatus	We can	2	2 A11			Eighteen Eight	Majority of them	(There are two primary desks in two)	They have not-insufficient }	Teachers and scholars order			mo.te. 27
: Hollingsworth Boys' Secondary School Locust, below Fifteenth		8 1867		Boys		4 167 4	5 Doth	Obliged to open windows		None	All		3	Twenty	Yes	secondary divisions. The seats are comfortable, but single	No-have a recess	Both scholars and feachers suiter from foul ab.,.			1 00 23
	Lucy McCullagh	8 1867		Girls	12, 1875	5 194 5	5 Decidedly full	Obliged to open the windows	Not on cold days { Insufficient heat or vertilation this winter.		1	1	1	Twenty four	No	desks preferable. Thry are very comfortable	No	Prognoul cases			25 29
2 Zane Street Poys' & Girls' Sorly School l'Ilbert Street, ab. Seventh		9 1841	14.	Gh ls	. 12, 1010	3 160 3	Both	Obliged to open windows	this winter.		2	None	AD	Sixteen	Except in one room	They suit yory well	Very seklom	Occasionally	1		67 30
31 Keystone Boys' Secondary School Nineteenth St., ab. Chestn		. 9 1069	Steam.		March 10, 1875	3 141 3	Usually impure, never dry		No.	,		11	1	Fifteen	They are	We have 14 pupils whose feet barely learning the fourth the floor when silling applied.	Yes-insufficient room	Many children suffer			mo tor 42 31
22 No 4 Boys' Secondary School	Mary Ford	9 1869		Girls	10, 1875	3 160 3	3 Usually Impure	ч в		1	2	u u	1	Sixteen	16	Children, whese feet do not touch floor should be made more contestable.	No	Fifteen pupils that suffer	4 1	11 19	42 32
23 Coys' Secondary School Cherry Street, ab Pifteenti	l M. W. Strnthors	10 1850	Hot Air.	Roys	Fab. 10, 1875	4 193 4	Air beromes fonl	8 6	(Yes, by bowing)	2	2	2	All	9 weak, 7 near sighted	**	(should be made more community.	Nu-have recess	Udan't think they suffer	. 00	07 72	20 33
4 N. W. Girls' Secondary School Race, below Filteenth	Anna W. Steele	10 1832	4	tiirls	March 15, 1875	5 198 5	Both	Windows are used for ventilating	No	None	3 3	All	None	Fifteen	и	We like them very much-Bancroft's desk	We have then effected results	Both scholars and foneliers suffer	70	70 18	10 M
25 No. 3 Boys' Secondary School Chester and Maple Streets,	Agnes W. McBaith	. 10 1818		Boys	" 10, 1875	3 128 3	(The air is oftener dry than)	{ No ventilating apparatus, depend } on doors and windows.	Pure air cannot	2	l i	None	AH	Two	4	The desks are very old and dlluphlated	Yes-but not lately	One teacher angers	110	00 70	40 35
24 No 4 Girls' Secondary School Chorry, below Eleventh	L. J. tinskBl	10 1971	J.	- Girls	Feb. 26, 1875	1 179 1	Too dry	Have to open the windows	Only by lowering windows.	2	. 2	ш	tr.	Fourteen	"		No-substitute recess	They do not.	, na r		2 44 36
27 Madison Girls' Secondary School New Market Street	. R. M. Jackson	. 11 1818	24	Ghls	9 5 1875	5 237 5	Both, at times	(Ventilators not sufficient, obliged) to open windows. Only ventilation is by opening.	Cannot	3	2	1	44	Eleven	44		They have been discontinued for want of room.	Have heard of none	1115		1 22 37
So Madison Boys' Secondary School " " " " "	Iou. Humphrey	11 1838	Ť.	Boys		5 247 0	5 4 4	(Only ventilation is by opening) (windows.	(Some rooms it is)	3	2	1	64	Thirteen			. 11 0 11	No unusual complaints			1 22 38
13 Millin Boys' Secondary School Third, above Brown	. Josephine H. Davis	12 1825	14			5 257 5	It gets foul	Obliged to open window but but	3 rooms we cannot	5	1	None	2	Twenty-two	41	Very suitable and confortable	(They have not	Not an are of any suffering			42 89
40 Mifflin Girls' Secondary School. " " " " "	Martha Joseph	12 1825	-		Feb. 25, 1875	5 223 5		(No means of ventilating but by opening windows. (It is very good. Lower the windows a few inches.	(Not on extremely) cold days. There is facilities	All	3	64	All	Twenty-slx		Have not	(for want of room.	No unusual complaints			1 40 40 1 (d 11
41 Parson Girls' Secondary School Noble, below Sixth		12 1871			Murch 8, 1575	5 200 5	Very soldom (Very soldom foul, some-)	dows a few inches.			None		H	Nineteen		Not large enough for large loys to write with comfort.	large yard. Exception at reverse in large	None			28 12
42 Parson Boys' Secondary School " " " " "	H. C. Moyors	12 1871	-	Boys		5 201 5 0 250 5	times too dvy.	Depend on windows for ventilation (It does not, Windows must be)	Generally do so			2	3	Thirteen near sighted	41	write with comfort.	t yard. They have—good results	They do not			34 13
43 Wyoming Girls' Secondary School Sixth St. and Fairmount /		13 1868	le .	Girls		n 250 5 4 217 4		(opened,	No, it cannot	4	1	None	-3	Twenty-three Four		They are adapted to the wants of the pupils.		Hayo not heard any complaints from teachers			70 11
Warner Bo, Secondary School Perth Street, ab. Parrish Garden St., bel. Buttonwe		13 1851	14	Boys	9, 1875	6 130 3		Often have the windows open	119	1	1	1	2	rour	M.	(pulsis.	Nu				915 15
55 A. Q. Adams Dily Committy	H. Barr	13 1864	34	Girls			2 Very comfortable	Windows are lowered	ч	None		2	Doth	Six	et et	Very comfortable					28 40
47 Hancock Boya' Secondary School Fairmount Ave., ab. Twel		14 1808	45	lloys			5 Generally foul	Obliged to open windows	Very seldom	(1 front	4 side	2	4	Six near sighted	ts.	(We have Uhlinger and Bancroft desks,)	They have, with no percepti-	Both-accadomitly	61 0	65 66	28 47
Hancock Boys' Secondary School Wood Street, above Elever		14 1872	10	Boys			5 In rooms the air gets foul	п п о	3 rooms are, 2 cannot.	(1 rear	2 rear	None	All		16		. Have no space for gymmestics				18
49 Monroe Girls' Secondary School	F. A. Reop	14 1872	le .	Oirls		8 156 4		Ventilating apparatus not suffi-	No	2		0	16.	[15 near sighted, 4 sore]	14	Are well adapted to the pupil's use	. Only a short time since	None affected the way described	. 04 10		36 49
56 R. T. Cannad Girls' Secondary School Melon, above Twelfth	Ellen S, Knorr	14 1867	bi	Girls	4, 1870	7 340 7	Tuo dry	Yentilating apparatus not suffi- cient. Windows opened. We open both doors and windows. Never.	Not in the coldest } weather.	2 front 2 front	3	85	14	Forty-seven		(Scale too narrow, desks too low, and) (straight.	Have no room	Yes-more from headache and nose bleed than a differ case s			04 00
51 Thaddens Stevens Boys' Soc'y School 17th, above Fairmount A	v Emma Allen	15 1874	Į.	Buys	" 11, 1875	6 343 6	6 Most rooms get foul and dry.	Open windows	Never	None	4	11	ы	{10 near sighted, 36} { weak eyes.	at .	Are great improvement on old style- { comfortable.	Not of any account	other caus s Part of the frachets and number of the scholars suffer.			ne tre 61
52 Livingston Boys' Secondary School 23d St., ab. Callowhill	M. J. Martin	15 1872	- 6	Boys	" 10, 1875	5 288 5	5 Both	Always open windows	(Not purely, by)	4	{2 F. & S. \ 2 S. & R. ;	2	2	Fifteen	11	They give satisfaction	clyse to order.	They aften complain			45 52 80 53
53 Lincoln Girls' Scrondary School Fairmount Av. & 20th St		16 1862	- 6	Girls	" 12, 1875		5 Very foul and dry	We are obliged to open wimbows	Some rooms cannot	f 1 room in front	3	None	3	(10 near sighted, 10) weak oyes	14	Smaller ones for the small ones, and blarger ones for the large ones.	No system has been taught	No-only from the use of a close room			80 53 48 54
24 Bache Girls' Secondary School Twenty-second and Brow		15 1868	14	Ulris		6 311 6		Open the windows	Cannot,	2	4	54	All	Twenty scholars	14		(Yes, they have used them but it seldom.	Thirty scholate	08 7		50 55
II Hoffman Gir's' Secondary School Seventeenth and Wood		15 1808	Б	Ulrls	March 12, 1875			и и ",,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(Only by opening)	1	1	21	None	Sixty three scholars	n	They answer the purpose	N	N0	."		00
567 Charles Summer Secondary School Brandywinu St., ab, Fiftee		15	- 11	Ohls	" 4, 1878		2 Sometimes both	Have none except the windows	. 11 11	3	2	1	1.6	Seven scholars	No	80	No.	Hoth auffor	89 5	1 61	47 67
17 Landenberger Boys' Secondary School., Fourth Street, ab. George		16 1868	- 0	Boys	" 26, 1875	9 250 5		Ventilation insufficient	· Cannot in c'ld weath.	1	None	Both	1	Four	They are	(Desk s are double—should be single and)	Have recess	Teachers and a holars suffer from headache	1 1		ne bo 68
Landenberger Girls' Secondary School, Fourth, also George	Rachol Briggs	10 1868		Cirls		6 277 6		(We have to oten windows for all)	Camut always	3	3 S. & 8 R.	None	All	About 1-17 is affected Eleven		higher for health of the children.) I would like the seats to be stationary	No.	I think so			45 59
Hattison hoys becomen,	S. Sherry	17 1832		Hoys Glels		5 278 5 5 280 5	,	{ We have to open windows for all } the air we get.	Not niways	3	4 S. & 3 H.	"	14	(6 weak eyes, 2 near) sighted.	All but our rough	(Those last introduced were much more) (convenient than Utilinger's.			64 6	0.3 71	45 60
(* Harrison Girls Sciendary School "	and or energy are and a	11 1632		UIIV8	12, 1675	0 200 0	senher	. No ventilators. Open the windows	104	- 3	2			(sighted.)		(convenient than Uningers.)	-,	T Carried Total			1
The second of th	olum	W.O.W.	w When	the the			0.000 113 0							Com the bookers A	Sourceal corner of m	ose bleed among the children have	occurred, †Rented.				



5 C]

 u, by any mer r tolerably pur n enough?	OR TEACHERS SUFFER DACHE, LASSITUDE, NER- LITY, NOSE BLEED, OR R AFFECTIONS WHICH TTRIBUTED TO CIRCUM- CONNECTED WITH THE	WHAT IS TH TEMPERATOR MORE SCHOOL-AG U000 U000 U000 U000 U000 U000 U000 U0	OF 1	ONE	NUMBERS.
No	edge	70 700	720	50	::1
Generally		No Ther	mome	ter	62
Cannot			66		63



SECONDARY SCHOOLS. Continued.

77 s 41s 1s	SCHOOL HO	USES.	NAMES or PRINCIPALS.	Section. When Belle.	How Heaven.	Date of making Report.	Number of Classes Number of Scholars Number of Teacher	Does the Air Get Foul. OR Too Day?	Does the Ventilating Apparatus give enough fresh Air, or do you have to open the Windows?	Con you, by any ments, keep the Air folentidy pure us well ne waren enough?	How many rooms have whidows In front of the Scholars?	Bow meny rooms or letterd from the ode and re to	they many recome age cut off toota a partlem of light by are peading buildings?	May many monestressufficiently clinical, weather?	How many Scholars have Weak or Sore Eyes, or other defect of Vision?	Are all the Dodte and Boah of one size in each roun?	HAY), YOU ANY ELMALLS TO OFFER AS TO THE MEETI-OF THE DESKS AND SEATS	HAVE YOUR SCHOLARS 1) D CYMNASTICS, IF SO WITH WHAT RESULTS '	DO SCHOLARS OR TEACHERS SUPPER FROM HEADACHE, LASSITUDE, NAR YOUS DEBILITY, NOSE MEER, OR ANY OTHER AFFECTIONS WHICH MAY BE ATTENUED TO CIRCUMSTRUCES OUNSECTED WITH THE SCHOOL.	WHAT IS THE AVEI TEMP BYTHECO OR MODE OF SCHOOLS 1007 1	ANCH.
																		V			
y mar B	ys & Girls' Secondary School	Palmer Street, ab. Thompson	Louisa Huttenlock	18 1872 11	t air. B. å	k G. March 10, 1875	4 255 4	4 Both	Have no ventuators	. No	3	1	None	All	Ten Twenty-six	Yes Very few exceptions	Satisfactory	No-lave no room	Not to my knowledge	70 70° 72 No Ther mean	l l
	exen Bays' & Girls' See mary.					k G. " 15, 1875		4 Very seldom either,	Open the windows account	- Generally	4	None All sides			10 weak, 9 near sighted		They are confortable .	No not cough que	Vision and the second s	No Anor mone	
	on Boys' & Girls Soc'y School					e G. " 12, 1876			No. Compelled to open the window		All	2 100. 1			7 near sighted		They are very good	No	Both suffer from braidthe and basifinde		1 65 (1
	School and School and Social School	Montgemery Ave. and Gaul		. 18 1873		G. Feb. 24, 1875			(Have no ventilation apparains,	Campot	4	.511		5	Nite	They are	off the seats were higher t think it?	No .	devisionally they be	No Thet mom	neter 5
	S' Secondary School	York and Tulip	Lucy L. Deul		n B. A		5 248 6		(Ventilating apparatus not suffi- cient, have to open windows.	Can in some tooms.	3	2		All	Thirty-two {	They are in four classes.	In four classes the scats are not stations any, which is annoying.	No	· · · · · · · · · · · · · · · · · · ·	11 45	1
		Howard Street, at . Diamon		19 1861	n B. A			h Becomes foul		We can	3	2		11	23 weak, 9 near sighted	They are	Desks are satisfactory	No	They do not the second of the second of		-7
	L. Secondary School	Adams, bet, Ambler & Coral		. 19 1874	v B. 8	k (i. " 15, 1875	6 254 6	5 1 4 4 4 1 4 1 1	, n n n n n n	. 4	-1	None		0	(cycs, 4 weak eyes,)	Yes	o by They answer very well for largest boyel	. No	1 Tenchors failuted several times schoons do:	h 1	1 13 1
+ 12 yet 8	andary School-Colored	Cadwal'der, ab Columbia At	r. M. Wilkinson	. 19 1873	6 Bo			2 { Gas escapes from detect } tive time,	No ventilators. Open windows of Ventilating apparatus not suffi-	No	1	1	2	Both	1-20 of the scholars	No. They are	Docks are double sinche preferred-	Not for a lone while	They do		
Gurls' Bi-	a lary school	Eighth and Thompson	E. J. Creenri	. 20 1873	0 (11)		5 264 5	5 Often both	Peient, Open windows, have to		4	(Mi well)	None	3	Eleven	auty are	eshould have covers tor into wells. Dosks are hardly large enough.	No	They do every day	no , ob 31	1. 1. 1.
	airry S hood,	1 11 11 11	. Mary E. Smith	. 291	ii Bo		5 255 0	5 Both,	(Xo ventilators. Have to open	6	All	lighted -	n	All	36 some defects			No toom .	None appear to sufer	m 10 71	I william
	Sto-1 Girls' Secondary School			. 20	6 Bo		5 304 5 10 312 5	6 Both	windows.	See remarks (All font	1	All	None	30 yery near sighted	41			All dones a second constant	to o al	1 , "" ,4
	Street hoys' Secondary School nk Beys' & Girls' Sec'y School		D. L. Cordery	21	" B. 8		4 168 4		Windows must be opened	We can	4	I from rear. i	1	3	(2 w % 5 near sighted,) (2 with detect,)	u				(4) 41 (1)	
	nk Boys' & Girls Sec'y School.			21 1871	" B. #		3 125 8			By open'g windows.	11	All from 8.	None		Five	и	They are satisfactory	No	Not to my knowbuke	1 (50 18) 21	2 58 .5
	tha Boys' & Girls' Soc'y School			21 1861	e B. 2	& G. 0 12, 1875	7 119 2	2 No	. Open windows	(Impossible in cold)	1	None	**	Both	2 or 3 are near sighted	One room they are	Second division desks badly needed	No.	No such years		2 32 7
	kon Beys' & Girls' Sec'y Schos.		M. Conway	. 21	" B. J			2 Lower room is damp	H II	" (weather.	1	711		,	Two	Yes	1.1) on sider dedes of second divertor un-	No	Both suffer		1 10 ,8
Ts Rittenli	ouse Girls' Secondary School, .			. 22 1841	n 131		2 102 2		1	Impossible	Both			All	Four Form sighted	Yes	(iit for use.	(No., time yard, but not allowed) (toplay for resent making note)		at on n1	10 ,0
	ouse Boys' Secondary School	0 11 11	Annie S. Righter	. 22 1814	" Bo			2 Get very foul	1 4 4		We have	ti v radowa				They vary	Old fadion and Inconvenient	No	Have no complainta	No. They mon	hieros 0
	d Boys' and Girls' Sec'y School		Lizzie J. Rook		" B. a	& G. " 20, 1875 & G. " 31, 1875		1 : Van	Open window. No ventilator	We try	1		None	1	Two	Yes	All nice and new	Na	Ye ; from a headicle		1
	t Boys' and Girls' Sec'y School		Eliza E Smith	00	n 11. s	& G. " 30, 1875		1 Air reire	Open window		1	1	"	VII	None	No	They are old and out b with	Exercise in his a play ground.	Yory soldom complete	fea 144 mg	
	Boys' and Girls' See'y School ille Boys' & Girls' See'y School		E. Celia Rook	. 22 1874			6 36 1	1 With care can keep our pour		Except extreme cold weather.				Suffar techi		Three sizes	(convenient.	They have not	Not aware of any	No Ther mor	ato to 83
	Boys' and Girls' Sec'y School				" В. а	& G. 0 25, 1875	6 77 1	1 Gets very foul	я и ,	I rannot	None	(Birland) (From S.)	\mathrew (1)	1	"mar sighted	They are	They are satisfactory. The desks of 1st 2st, and oth divisions have been in use since 15.2, and of	Not often.	Frequently.		L. 1
	H Girls' Secondary School	Franklin and Sellers Stree		. 23	е В. с	& O. " 10, 1875	5 226 5	ā Both	Have to open windows	Not always	All	VII		All	Not may None	Yes	course are very uncomfortable	Haye not	Tencher critter from to abolic and		46
	Il Boys' Secondary School	u # # #	Maria B. Brown			& il. " 5, 1876				No	9 3			. 9	None	No	I have none	No	No		n 87
87 William	Boys' and Girls' Sec'y School		is., John H. Davis	23 1871		& G. " 15, 1875			. Not often in cessary to open windo	re You	1	1		. 1	1 sore eyes	Two sizes	Perfectly satisfactory	Not school exembs	No. t in the con-	01 05 07	
	Boys' and Girls' Ser'y School.		Emma Gregg	23		& G. Fob. 21, 1875 & G. Fob. 21, 1875	5 48 1	1 Not us a general thing	Have to open windows	No	1	1	4+	All	Two	Yes	(Some of them should be suitable to the wants of the smaller pholats.	1 No - have no time—they have { sufficient exercise	The scholars often sider from headache	64 98 76	
	nicsville Boys' & Hirls' Secty	Mechanicsville	Anule E. Piper	23 1869		& G. March 3, 1875			bower the windows	Yrs	1 in front	1 from S.		1	2 near sighted	(All but two, they ! (lower.	I have not		No	92 61 05 No The mor	
90 Maple	Grove Boys' & Girls' See'y Scho	Academy Road	E. D. Herman,	93		& G. Feb. 23, 1875	30 1		Have no ventilating apparatus	"	1	1		1	Not any	Two sives		No have no set twice dally	Not any	1	
91 C Mrs	y Boys' and Cirls' Soc'y School add Boys' and Girls' Soc'y Scho	Tuesday Road and Proft St	L. A. Dilman	23 1868	п В.	& tl. Murch 3, 1875	10 313 5	5 Becomes 1001	No ventilators. Open windows		All	4	1	All	5 scholars	They are	They answer very wella.	(Have to some extent, but not	I do not think we do	1 "	n p3
92 White	adl Boys' and Girls' Soc'y School a Boys' and Girls' Soc'y School	Haverford Rd., nb. 35th 8t	M. A. Almond	24 1850	" B.	& G. 160, 16, 1875	5 241 5	ā Too dry		A Camot	All sides	2	None		Three Eaglit	They vary in size	They allowed very works	Nu	**		70 28 14
9 Manti	at Boys' and Girls' Sec'y Schoo	d. Oregon St and Forty-first.	Blizabeth A. Scheetz.	21 1868		A G. March 12, 1875			It does not. Open windows	I can by opening windows. Generally, unless	None	2 None	и	All	21 pupils	They are	They are comfortable.	No	. Two teachers and firty scholars suiter	. 68 71 /	
9. War	Boys' and Girls' Sec'y School	Thirty-eighth, above Warr	en S. B. Boulterer	21 1873		& G. Fob. 24, 1875			It does not. Have to open the winds (No ventilating apparatus)	severe weather.	Both	Both	46	Buth	(3 near sighted, I weak)	11	None they are Utilinger'	No not sufficient room,	Nothing to complific of	B) 00 7	
n Hadd	auton Boys' & Girls' Soc'y Scho	Merlon Ave. and 66th Stre	set S. Kirkpatrick.	. 21 1851		& G. March 8, 1875	1	I Does not get foul	" { the windows. Windows are lowered	pating windows	1	Sider	14.	1	None	Yes	(The number of the larger desks is in	Two reer as during the day		No The 100	iometer 16
	ath-Boys' and Girls' Soc'y Scho			24		AG. " 15, 1870		1 The air gets foul	No ventilators. Windows ha	Caunot	1	1		2	Fivo	Two sizes	(sufficient touc commodate barge chobars		They frequently complain.	6n ús 7	71 32 99
	Boys and Glals' Ser y School.			91				6 Yes, frequently	1*	Xo	. 2	1	3	3	Seven	tone. They are	For comfort Bancroft courpes all other	No.	Not to my knothelin	, 56 58 ¢	tio 20 too
	muster Boys' & Girls' Soc'y Scho			25 1808	в В.		5 4 102 1		Compelled to open windows	Impossible,	. 2	None	None	All	Six 1 sore even	They are	I have not.	No too chipbon dall	the teacher roles with headache. Scholar		nometer 101
100 800	man Boys' and Olels' See y School in Boys' and Olels' See y School				а В.			(2) . Not so foul, but too dry		By no means	2	1		All	S near sighted, & week	15	None	No.	They suffer exceedingly from colds, to paugh they suffer exceedingly from colds, to paugh this school.		u pr2
10. MrC	onen Boy Cand Gold' Socty Sch		Anna M. Spallen	25 1808		æ 11. · · · 10, 1876			(No ventilating apparatus, Op-	Car in one room	All	. 1		3	Ten		Not any .	No	No.		190 22 103
1/1 1 1	om Boys' and Ghis' Sor'y Scho	ol - Foderal Styab, Eleventh		20 1848		A O. Feb. 12, 1875		4 Sometimes foot	Upen windows to ventilate	Camotine'ldweath	. 4	2	2	, z	15 with some defect	64	Three of the seats are too long,	Room betoo matt	Not any		97 94 104 72 94 105
1/4 15/1	ick Boys' Secondary School	. Flizwater St., ale Fifteen		26 1869		loys " 10, 1875 liels " 5, 1875	1 196 4	4 Foul, owing to the gas 6 Neither	All but two rooms	By opening door	1	5	Note	All	14 with some defect	44		Dave not No protes outston exercise	No. Headache and new blood for want of ventilati		
	, Stanton Girls' Secondary Scho		an Mary Sharp	26 1869		& G. March 1, 1875			Ventilate by lowering windows	- Cannot	. 3	3 from side		ul	3 with some defect		Basks should be made to suit size of	Active exects in admin-variety	1 Nn		monte for 107
	dreth Boys' and Girls' See'y Sch aklin Boys' and Girls' See'y Sch		H. B. Whittington	20		& G. April 10, 1875		1 No		· Tro	None	1	41	1 1	One Note:	No.	In one room they are poor		To a microstroid (a		v [m]
	addin Boys' and Girls' Sec'y School and Boys' and Girls' Sec'y School		Charles H. Brebtord	i 26	a B.	& G. Fob. 1, 1870	7 143 2	9 Yes	No ventilators. Open windows	No	. 1	3	1	. All	Thirteen	They are	Not any	They have not .	They do necoslomU1v		70 12 109
	ree Boys' and Girls' Sor'y Schoo	d Twenty-fourth and Civi	stian I E Hinds	26 1871	a R.	. & G. " 11, 1875		a It gets foul and dry	Have to open windows	We can	. None	3	1	3	1 sorreyes	н	Desks and seats satisfactor)	No coolins are not convenient	Teachers and scholars in healthy condition		71 28 111
110 No	wton Boys Scientific School	Thirty-stxth and Chesti			11 1	Boys " 5, 1875		4 Very dry, and foul	N	('annot	1	1	None	All	(1 partially blind, 2 n'r) (sighted, Bowk cyes)	16	They are perfectly comfortable	Universal .	None.		promo ler 112
111 N	wton Girls' Secondary School			27		Hirls " 16, 1875 & G. March 9, 1875		4 Generally pure	No vontilating apparatus	We cannot	Both	Both	41	Berth	None	Nu	(They are too nurrow in the cats and straight in the back. (They become easily beasened is the	Occasionally 1 Ves - good to sulfix discore	None suffer		
1135 C	lorest Boys' and Girls' See'y Sch eenway Boys' and Girls' See'y S	nool Chestnut St, west of 42		97		i. & G. " 1, 1875			Windows must always be open	No	. 2	28. & F.		44	Five	They are			We suffer very time hofrom gas escaping to the feetilise flues.	n 51 18	
) 15 G	ocuwny Boys' and Girls' Soc'y S ockloy Union Boys' & Girls' Soc'	y Sch Walout and Fifty-tide	1 M. A. Smith	27 1848		L & H. Fob. 11, 1875			Windows must always be ope	Cannot		2 F. & S.		7	Note Very few		they are too clear.	No rooms are too small	Not university and a comment of the comments of the commen		mome for 115
1158 A	ugora Boys and Girls' Soc'y Sci	hool Balthmore Ave, and Ch	aqiel, Kate J. Rudy	27		6 41 March 11 183	6 149 8	5 Tuo dev	Necessary to open windows	No, not always	1	3 F. & S.		.\11	Oue or 180	They are	(Desks and seate scarcely face enough for largest pupils.		. I think not	5891 63	73 43 117
116÷ 4	akelale Boys' and Girls' Sec'y Sc!	hool Brond & Township Line	eRd Mary A. Starr { },	25	a P	1 & G. " 3, 1870	5 8 203 4	4 In some rooms the air gets very toul.	Xa ventilators, children sit so no the windows we can't open the Have no ventilating apparatus b	Altnost impossible.	None	All		All but 1	Talet p					(4) (12	68 25 118
3177	namond St. Boys' & Chil " Ser'y	School Diamond and Cama .	A. 8. Rose	28					(nindino.	and V an		o team side	. 1	3	(29 n'r sighted, 36 w'k, 4 (1 glass, Unions an eye) (9 n'r sighted, 5 weak)	In all but one ro-	p	No. American results		67 68	79 34 119
1180	teynolds (Gr)s' Sociadary School	Eighteenth and Cabet	A. B. Thomas	20 1		t. & G. March 8, 185			We are obliged to open the wind (Ventilating apparatus not su	Be Not on cold days	Ан	All	None	AH	9 n'r sighted, 5 week t geges, 1 nearly blind, p (18 mar sighted, 21)	Y-4	Besks ar too low for the backs	No have no room	Know of ny towers	64 66	75 14 120
	a - ct-t - c - June S. Loud	st 11	" Jennie C. Piper	29 1871		ones Feb. 16, 1875	4 219 4	4 Sometimes foul, oftener dr	Ventilators sufficient	Difficult	4	**		liv.	to ak eyes.						sever intended
120	reatz arts Secondary School			10(1			100 4		1	£ n les	1111	olog soil	For six m	nonths of	**24th Sect. The	building is not	provided with a ventilating apparat	us, therefore ††28th Sec	ct. The school is at present loacated in a propers.	private nouse, ne	400 for three
to the reas deligion of divi	oth Sect. We cannot keep e situation of doors and vons; while part of the sel hiful sensation of freezing ome malefactor. I would ston of Warnock Street B	the air pure by any mo- vindows, water in the ce- iohirs are almost "crem- g. If it were desirable on suggest placing him on beys' Secondary School	uns. As to warmth, of flar, and a variety of ated" the others enjo provide a lingering to the last form of the There in winter, he v	owing come in even we yethor third third would 22d s ark—na 24t	st near end orse punish ring the he Sect. To lo ils tear the a Sect. I w	ough freezing to a hment of the cill of weather. ook at them you o boys' clothes. could especially o	not actually per luvia from a d would think to all attention to	rish, but would be left for efective drain, arising in ney were a donation from the location of my school	that the that the stands in the centroc the year the mud is can and the school-room winter, at times, it has who pass over spring, and on any it	I wlarge common were one's shoes, read filthy. There is no as been almost imp it on foot hable to clement day.	which has a dering the s walk, path assable. To cold and	clay soil. school-hons, or road, the common fever dur	se difficult on a during on certainly ing the wi	of access, g the past y renders inter and	windows and doors in open windows is di- ventilation has been another room complete floor and mop- the floor and mop-	must he opened rectly upon the n made in two laints of cold fe pards.	In some cases the current of of backs of teachers or pupils. An rooms by making holes in the et are numerous by reason of cra-	attempt at attempt at 1220th Se hours, and i perature 12° † Rented.	at. The school is at present bacated in a reposes. It Thermometer on Monday, February was impossible to get any more heat.	8th, stood at 4 to the room. O	ny for three int-door tem-



ATE

most of the bu

				- ====			- N. r.
tus Air,	n, by any means, keep ; always telerably pure as warm enough?	olars or Teachers suffer Headache, Lassitude, ous Debility, or Nose d, or other affections	TEX OR	TIS THE . RPERATURE OF THE OCITION OF THE OCITION OF THE OCITION OCIT	REOFO: F XOU	NE	
the	Can you, by any means, the Air always tolerably as well as warm enough?	h may be attributed rcumstances connected the School?	I ft, from floor	4 ft.from floor	7 ft. from floor	Outside.	NUMBERS.
	Ves		700	76°	820	47°	1
pen!	Impossible,	r at times with headache	47	58	68	40	3
"	Can in one room		60	68	72	12	4
	(Ves; by opening the windows.	er suffers somewhat	70	73	75	74	5
	No	ly	72	73	76	36	6
	"	stant suffers constantly from	65				7
pen †	"						8
	Yes		. 70	72	73	70	9
dows.	Not in cold weath	e ed by gas from worn-out heater	s			48	10
	We cannot	generally complain	. 58	6072	62 .	26	11
	· · · · · · · · · · · · · · · · · · ·	··lly	. 58	62	70	32	12
the)	We can						13
		ot		··········			14
	Yes	not affected				1	15
	Not by any means	y		53	56	8	16
	Yes,	itting near the stove suffer above complaints.	52	66	7.2	20	17
	(Yes: in moderate	sionally suffer	52	59	69	20	15
	We can	the teachers occasionally	60	65	68	11	19
	Υ υ 8	ses of headache	62	G4	69	25	26
	No		62	C.5	70	40	21
	Yes	no case	; 70	74	77	55	2
indows	No	om they complain	48	55	62	6	2
"	"	er during the winter months	52	58	62	28	2
	. Impossible	aint	70	691/2	68	40-44	2
	. We can generally	plain	61	66	71	34	2
	. No	plain—cause by bad ventilati	on 69	70	71	27	2
pur-	Not very well	uently	68	73	75	58	2

its support upon one wood work protected with tin, since which time ters were built in the est that the building inpector visit the building ive times during the flould occur I at least will not be held responsible.



CONSOLIDATED SCHOOLS.

All but one of these Schools are located in the rural portions of the City; most of the buildings are very old, and correspondingly deficient in modern school appliances.

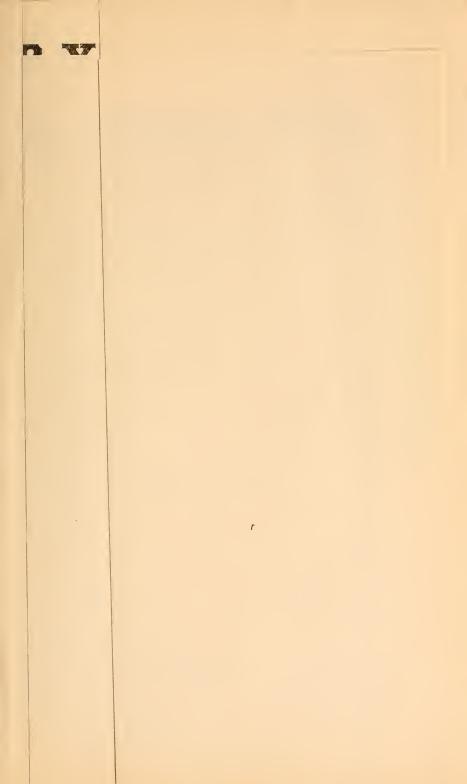
					~													
Ni Milling	SCHOOL HO	USES.	NAMES OF: PRINCIPALS, WILLIAM KING KING KING KING KING KING KING KING	How HEATED.	SEX OF SCHOLUES.	Number of Chaste. Number of Scholars. Number of Twelter. Number of Freductr.	DOES THE AIR GET TOO FOUL OR DRY?	Does the Ventilating Apparatus give you enough Fresh Air, or do you have to open the Windows?	Can you, by any means, keep the Alt always tolerably pare as well as warm eneugh?	How many reams have window- in front of scholars?	How many rooms are lighted from side and rest. How many rooms are set off from a portion of light by ail-	joining buildings? How many rooms are sufficiently lighted, even in cloudy weather?	How many Scholars mee known to you and other Teachers who have weak or sore eyes, or near slight, or other de- tect of vision	Are all the Desk and Seats of care size in each requi	HAVE YOU ANY EPHABES TO OFFER AS TO THE MERIES OF THE DESKS AND SEATS	HAYE YOUR SCHOLARS USED GYMNASTICS, IF SO, WHAT RESULT!	Do Scholars or Teachers suffer from Henduche, Lassitude, Nervons Beblity, or Nose Bloed, or other affections which may be attributed to circumstances counseted with the School.	When is the Avenage Thurse very cordine off model of a volume School loop Some cordinates Some cordinates
3 Rost	rts Vanx,—Colored strongh	Bandoljdi Street, ich, Parristi Bidge Av., ith. 7th Mile Stone	J. M. Murray 21 187		· · · · · · · · · · · · · · · · · · ·		4 Foul	No; necessary to open windows (Have no ventilating apparatus; open to the windows.	Yes,	3 4 I	None, 2 from side No	2 2 me. 4	Six		Cour desks are of three kinds, Philinger, ((Hintchinson, and Banerell None	No	No	70° 70 82° 47° 1 17 58 68 46 3
5 Ches 6 Mt.	trait Hill	Highland As , Chestmu 1111 Allens Lane, Mt. Airy	J. J. Macfarlance	1	" Maych 30, 0 45,	1875 13 279 5 1875 12 246 6	5 Very rarely	Sometimes have to open windows, ' Compelled to open the windows	(Yes; by opening) 24 (the windows,)	front, 1 side All.	2000 5 Zo 5 Zo 5 Zo	i 5 one, All,		nielowerin) toom (han	the the school. Not any They are comfortable	No many 200		da d8 72 12 1 70 70 70 74 5 70 70 70 10 6
7 Fran 8 Ellw 9 Oho	god	Ouk hane, near Vork Roud Olney Rd., ah, Second Streat	M. Adu Roddi	n	" April 1, 18	1875 ; 4 272 4 1875 2 113 2 15 8 103 2	2 (Very full	Have no ventilators	Yes	4 2 None.	All.	All,	None. They 3 weak, I near sighted cnear sighted No	tre		(results,)	{ Piret resident suffers constantly from } { headachs, } Sometimes	7 3 70 72 73 70 9
10 Colu 11 Faye 12 Holt	tte	Pustleton,	B. G. Swin	, oj	9 166, 5, 187 9 16, 18	75 16 267 6 5 16 247 4 5 20 116 2	4 At times both	No means of ventilation except window No, we open windows	We cannot	5 All, 6	None, All.	6 4 6 All.	Five They to weak, a near sighted		The desks are old and ununfield. They are old-fashfoned and posit. Phey are Unlineer's patent and very good! (A portlon of the desks are near, balance).	They have		$\begin{array}{cccccccccccccccccccccccccccccccccccc$
1) Was 1) Was 75 Who		Militown Road	John K Strong 23 185 E. L. Nelman 23 185 David H. S'out 23 184	nd Heat	и и зи,		1 It does not	(14 does not; we have to lower the) (windows, 1). Lower windows occasionally			chted.	room (0 each one, Both,		tre two size .	and old and doubt be replaced by new	No	Yory few. They do not	13 14 15
17 Ben	and Rush y W. Ditmos	Cresson Corner, Byberry	Juseph J. Bateman 23 184 Rdward Neville 25 184 T. W. Worrell	7 🖔	" 155, 23, 18	15 9 165 g	1 Neither	. No ventilators; open windows	Not by any means Yes,	1 1 Boths	1 2	o I o I o Both,	One		Deslocand scatteric unfit for ose, (We have obtained and desk with temperature benches, (We have Ramereff's deaks, and suc) pleased with them.	700	t Pupille of this from the stove order) y with thenbowe complaints. Hoth or rationally order	48 63 76 8 16 62 66 70 20 17 62 50 18 20 14
20 Heat 20 Heat 21 Rend		Frying Street, Bridesburg Nicetown			9 Meach 1, 1 0 5 5, 1	75 12 201 6 875 19 568 0 875 9 529 9	0 Foul	. Windows are always lowered	Yes	None 7 3	2 2	* AII.	Ten		They are suitable	No Not to rehead No	(conflatti	00 05 08 11 19 02 04 09 25 20 02 05 70 40 21
. Pon	rd Taylor	Passymik Rd, and Seventh Cor South and Pour	C. G. Freed	7	6 Feb. 10, 12 Boys, 6 12, 18	75 11 196 II	2 Generally impure	No means to contribute except by windows a a a a a	Yes,		All. I All from) files,)	All.	None			Have not Yes, beneficial is suite	I know of no con	70 71 77 66 22 48 65 62 6 23 62 68 62 28 24
10 Pa 21 GUn		. Schuylkill Falls	J. Montoe Willard	0	B. & G. " 22.	1875 0 100 0 1875 21 651 12 1 1875 10 201 4	2 Forth	We must open windows	Impossible	All.	4 Alb	** All, ** All, ** All,	Seven,	t one	Not may	No regular course of training n n n n Not at all	No complete	70 60½ 08 40-44 25 61 06 71 34 26 60 70 71 27 27
- Kete	b riou	Fifteenth Street, bel. Tioga	Churles H. Breisford 28 186		April 0, 18	TA 15 918 6	5 To some extent	(pose. Open windows.	Not very well	64	4		Two thoy	ir unequal 1	In some rooms they are very poor	Some little unimportant results	Quille frequently	08 73 76 68 28

25th Section. The Irving School-building was creefed in 1817, Bridesburg at that time being a part of the Eleventh School
ton. The original building has been altered from time to time to most the in-reasing wants of the community, until but slight
either inside or outside bream of its original arrangements. The first floor of the main building is block-up on the edge of the

cellar wall. The second theor depends mainly for its support upon one clight iron pillar. Originally the rooms were heated by means of stores; about eight years ago two heaters were built in the main building, and the walls out out to resort the flow running to the three rooms on the second floor. By the tiase sharing the first two years of my principalship I have estinguished first

while the school was in socion. The third year certain fluor were altered and the wood work protested with tin, since which time there has been no trouble. Three rooms are still heated with stores. I would report that the building impactor visit the building and that he make an others report to your honorals shouly so that it may be releasiful occur I at least will not be held exponsible.







PRIMARY SCHOOLS.

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							÷		4 5	m.a	2 55	l ke		*					
							St.		Daniel Daniel	Auday ~	10	Heden contlo	How a my Sch 7 -	2			Do School of others suffer	WHAT IS THE A	
SCHOOL HOUSES.	NAMES				rport	é e	Does the Air Get	Does the Ventilating Apparatus	utily, ugh?	milos solidos	The High	are still	are known to you and other Teachers	1	HAVE YO ANY AMALIES TH	HAVE YOU -CHOLARS	from Headache, Lassitude, Nervous Debility or Nose	. OR MORE OF SCHOOL-HOOM	
	UP		d	1 3	28	lassi chola vachi	20	give you enough fresh air,	1 3 5 5	Holish To sech	Thorn age?	100	who have week or	dealor selt n	OFFER AS TO THE MERITS OF	USED GYMNASTICS, IP SO	Bleed, or any other affec-		
E .	PRINCIPALS.	Bon.	EATE	Scmo	maki	2 2 1	FOUL OR TOO DEY?	or do you have to open the	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	of the		8.5	sore eyes, or hear	1 1	THE DESKS AND SEATS.	WITH WHAT RESULTS '	tions which may be attrib-	floor.	1001.
NAME. LOCATION		OTEN INFN	=	X 0P	go og	mber naber		Windows?	394	E Se E	W mil	E SECTION AND A	fort of vision?	통수			uted to circumstances con- nected with the school *	from from	from de,
NAME. LOCATION.		33 =	=	SS.	Ā ;	ž ž ž	ž		2.4.3	E S	#8 #3A	##		₹ ?				1 m	7 ft. 3
Henry Clay Primary No. 1 1 succester Street, above Re	ed Mary G. Edmunds	1 1852	Hot alr.	Boys	March 10, 1875	4 528 4	4 Ford	Ventilate by windows	Impossible	4	4 None	All.	Uncarrighted, 4 sorreges	Y,	We have Utiling r's desker they are ost	We do not	V large number inflex	67.5 605 7	
2 No.	Kate Muhony				0 0 1			(We would never have fresh air if it) was not for the windows.		All.	All. 3	**	Two nty-thro-			(We tried them but have not be from enough	Many scholars and all the tack a sorter		
	d. M. K. Hayden				Feb. 12,1876			We have to open the windows	(By keeping stove)		ont a 1 2 1 side.)	3	Four near sighted			No		11-00 to to	
4 No. 4 no a a		I 1×67	**	Girls				(No ventilating apparatus; we open) (the windows,	ing the doors.				- Thirteen		Desks not large enough for upper classes	Have not	Ossistently	15 98 2	51 20 4
5 Toker Primary No. 5	Sarah L. Peltz.	1 1807 1 1807	**	Boys		5 120 B	5 Neither	By opening windows	With care we can	A11.	All, None	All.	(None except those) who were affected at)		Not any		Ns Ns that I know of .		
† Parlow Pennary No. 7 Sixth Street, below Tasket		1		Guls	12, 10,0	3 201 3	3 Occasionally too dry	Occasionally open windows	Cannot	14	41	54	(time of admission.)		3000	No; have no room	They do not	100 1 100 7	70
s Calleges Primary No. 8 Tenth and Suyder,		1 1872	14	Bays	March 2, 1875		5 Becomes foul	(To have ventilation it is necessary to)		5	11 ,4	**		(They are lun,er) in first division.			t bink not	10 10 E	10 10 8
* No.9	H. McKny	1 1872	44		1946, 25, 1875	210 4	4 Both	Open the windows	Generally		rom side "	(it is not)	Four	Yes.	(I think it would be an advantage to) (have opening at the top to, shifts) (The high for some chidays, and too)) low for others.	Not for some tome	Four headsche occasionally	70 7.1 7	73 00 0
	II. A. Hinkle	1			March 20, 1875		1 Yes	No means of ventilation except windows	No	1	1	sufficitly highted.	None	**	Too high for some chidate, and test low for others. Would profer them or most to wat!	They have no marked result a	Nanca	a (a 1)	
Princes Color 1 No. 11 1418 South Seventh Street. When on Princes No. 1		2 1842			8, 1875 Feb. 17, 1875	1 51 1			(Unly by opening to the windows.	All.	None None	All	Two near sighted One	11	(Would prefer them arrow at to seat) (two, and have them stationary,) They are now and soutable	Hate actions a	Thouk not		73 39 11
1: ., W. Neburger Primary No. 2 Curport a Street, als, Skyt		2 1869			March 15, 1875			We have to open windows	Cannot	s.t	3 "		Twelve		They are too large for lower divisions	No, have rock to a min		68 69 7	
14 Primmy No. 5 Fifth St., below Washingt	m S, R, Barnard	2		Ghla	10-1-, 19, 1875	0 194 4	4 Think not	Have none; open windows	Yes	4 {	H from 1	- 14	Pive	16	Satisfactory	No	Uhlink not		
	Louise J. Lindery					3 138 3	3 Sometimes dry	It does; must open windows			Alls "		Four near sighted	н	Sould not be befor		They do not		18
		2 1860			0 0		3 Too dry	Compelled to open windows	We can	ii .	3 4		Six [3 near sighted, Grore]	"	They are very confortable	No, have recession as a second They have; untavorable result-	Nit nov		1
17 Primary No. 6 Carpenter Street, ab. Mat 18 9 No. 7	Mary C. Baxter	2 1861		Girls	15-b, 26, 1875 19, 1875	4 221 4	4 Foul	We have to lower the windows		All.	in the t		eyes, 2 detect of vision 3 near sighted, 1 weak	44		Uyumashis not used	n		15
1 No. 8 Temple Street, ab. Twelfil		2	44				2 Always dry and some-	We have to lower the windows		2		Both	Three scholars	No.	Desks are too high for size of children	Ves, without marked results	Үв		B
9 No. 9 0 6	A. M. Mullen	z	- 6	Doys	Is M		3 Foul	- Have none; windows always open		ΔП	None	All.	Six acholars	Yes	Desks of lowest division are too high.	No	Attimes complain of headache		20
21 Wharton Primary Fifth 8t., below Washingt		2 1940	61		15th, 19, 1575			- There to open windows	Cannot	3	1 "	"	1 weak, 4 near sighted	V.	None	. Have not, have recess	They do not	d . m . 15	
or Fletcher Primary No. 1	Maggle McIntyre	3 . 1868		Guls		4 201 4	4 Gets foul	Windows have to be opened	Not always	4	,	4	Seven scholars	164	In one room the scats are uncomfortable			16 80	Ed 2.1 25
23 Fletcher Primary No. 1 Christian Street, ah. Fron 24		3 1868		Boys	Murch 11, 1875	4 226 4	4 Ford	- Windows must be opened.	Except on very }	A0.	side & ! 1	All.	Twenty-one	44	Besks are too high in one room	Have not, we have a recest		0048 0048 1	70,1 10 2
25 Mt. Vernon Primary No. 3			Blesm.	1	Pob. 26, 1875			- Ventilators sufficient	We can	4	1 None	4	Two	и	Very pretty and nicely adapted to the state of the scholars.	No	No.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
26 " Yo.4 6 6 w		3 1874		Ghls	Murch 27, 1875	5 149 3	3 Neither		Always	3		3	'Ewo	0					29
gr " No. 5. Sixth and Christian Stree			Hot air.				3 Very often	Have none	! Very difficult in ! (cold weather.)	All.	2 None	All.	Four near sighted	11	They suit very well	Not for a long Historian majori	Mead suffer more or less		27
25 " No. 6 Uhrlottim Street, hol. Slat					Feb. 12, 1876		3 Becomes foul	· Have none except windows	With one exception	4 8	Ilfront? None	44	Ten 3 sore, 4 near sighted	u	Not any		Nit particularly	00 89 4	07 21 2
29 Lyons Primary No. 7 Catharline Street, ab. Tent		3 1851		Girls	March 3, 1875		4 Not if properly ventilated. 4 Not if attend to ventilation	Cannot be used; we open windows Sometimes too much; windows best	Not in Third and { Lourth Division. }	4	side.)		(5 weak, 3 sore and 2) near sighted.		Nothing	Yes, discontinued	Niter knew of a core	ens disk	
at Union Primary No. 9 Seventh St., below Cuthur		3	, 6				4 Foul; caused by coal gus	Windows and doors open regularly		AH.	2 "	44	Three near sighted	rt.	Uhlluger's -comfortable	Ves, beneficial	They showard	. 41 70 1	70 10 30
22 Wilston Primary No. 1 Guilliord and Behildridge.		4 1868	44	Boys		4 183 4	4 Both	It does not	Only by opening the windows.		rom side 3	1	3 sero, 5 near sighted	44	They are comfortable	. No, they have outdoor excists	Throw of no take	ad anty	
	Mary A. Byrne	4 1867	16	Ghils	1 From Mr. ch.)		4 Sumotimes dry	(Ventilating apparatus gives enough the hour.	We can always	4 (il from 1 1 None	3	Six mar sighted	41	a a annual a	They have, good result They have; encouraging is salt	Hare heard no complaint	68 U2 U	
3 " N (iii. Pitzwel) Stanboye Sixf		4					3 {Semetimes fortund some- times dry.	There is no ventilating apparatus	We try	None (side & F	AII,	Ten Fourteen	H	The new style is preferable	Your manners and the country	Not praired any such organization	09 01 6	
5 William Merodith Peners (N. 4) Flith First, below Mon	Ellon McMullen	1 1874			0 25, 187 c		3 Sometimes foul	then windows only in mild weather Occasionally open windows	Sufficiently so		di from 1		Laure, Smar si lited	st.	Modern Improvement and comfortable		- Hear no complaint	01 10 1	
- Primery No. 6 Fitzwales Street, above Si			1 11		Murch 5, 1873		3 Xo	No ventilating apparatus; we open		1	1 None	(a wortion	Twenty	No.	{ The old pine deal water too attribute to I the back i	They have; beneficial		00 00 1	
	Alli Marks A. Lynch	· 1																	
The a Primar No. 7		4 1809	Hot sir.		0 1,1875		4 Not if properly ventilated.	(Mways have to open the windows for ventilation	{ {Except in cold} }	All.	All. "	of each room not	Two near-righted		They mucht be improved in some respect	They have not	or I thirds not	. 65 tot 5	70 1 64 30
S Pare in Pelmin No. 7	C. C. Hogan	4 1868	1		9 1,1875 9 0,107	3 702 4	40 0 0 0	(16) ventilation	(In two rooms are)		All. total a sides.	of each	2 wests, 5 near sighted		They mucht be improvement	They have not	Since Cities to a chept and chelater wifeen	to english	70 64 30
Face in Pellinia No. 7	C. C. Hogan	4 1831	49	Boys Boys	0 1,1875 6 11,1875 9 11,1876	3 702 4 4 190 4	4 Foul	How contributed	(In two promesate chilged to open) the windows.	u {		of each room not	1		They admit of Improvement			to english	70 98 9 63 12 10
S Pare in Pelmin No. 7	C. C. Hegan C. C. Lore han	4 1868 4 1841 5 1871	41	. Girls	9 1,1875 9 1,1875 9 11,1876 9 10,1875	3 702 4 4 190 4	4 Foul	(16) ventilation	{ { Except in cold { weather. } } } { weather. }	" { 2 None 3 3 1	ill from a class of the class o	of each room not 2 2 All.	2 weak, fine ir sighted S x near sighted Therein Five near sighted	vi vi vi Vi si,	They admit of Improvement	We have outdoor excitlences	and of the Cacherrand cholars suffer. Knowledger Secretal couplain	. 11 08	70 96 9 03 12 0 70 at 1 56 14 4
Face in Pellinia No. 7	C. C. Hogan	4 1868 4 1841 5 1871 5 1871	49 49 44	Boys Boys	0 1,1875 0 1,117 0 11,1876 0 10,1875 0 11,1876	3 702 4 4 150 4 3 112 3 4 176 1	4 Foul		(In two rooms are chilized to open the windows.) I cam (Xeept in } (one room.)	None 3 1	ill from a lides. 2 from rear All. from side None	2	2 weak, it is at sighted S x more sighted Flevon Five mean sighted (Ten mean sighted, 44 (other defects, 5)	0 Vest	They adult of Improvement	We have outdoor except a constitution of the continuous outdoor except a continuous outdoor proporties.	sance (the technique de dans auffer. Knowed with Reference complain	01 08 01 08 00 00 00 00 00 00 00 00 00 00 00 00	70 96 8 03 12 0 70 at 1 50 14 4 71 50 4
Face in Pellinia No. 7	C, C, Hegan C, C, Hegan Ritza P, Longhran Rilien J, Conner E, J, Lemiz Manparetia T, Wai lab.	4 1868 4 1831 5 1871 5 1871 6 1871 6 1871	41 45 44 44 44	Boys Boys Boys Boys Boys Boys Boys Boys	0 1,1875 0 11,1876 0 10,1876 0 11,1876 0 11,1876 0 9,1875 0 12,1875	3 702 4 4 180 4 3 112 3 4 176 1 5 148 3 5 110 3	4 Foul	To exactlation	(In two promestics) (In two promestics) (In two promestics) (It will do to open) (It will not be a compared to the will not be a compared to the compared to t	None 3 1 None 4	ill from a control of the control of	of each rooming	2 weak, fine it sighted Samer sighted Fleven Five near sighted (Ten near sighted, 44 (other deets, 7)	V + 4.	They admit of Improvement	We have outdoor excited to the West of the vest of the	one of the teachers and scholars suffer. Received we rel Received complying. These from slid of with mass blood	01 01 03 01 01 01 01 01 01 01 01 01 01 01 01 01	70 95 99 99 99 99 99 99 99 99 99 99 99 99
Facility Pelling No.7	C. C. Hogan C. Londinan C. Hogan C. L. Lenter C. J. Lenter C. J. Lenter C. J. Lenter C. L. Lenter C. Lenter C. L. Lenter C.	4 1868 4 1831 5 1871 5 1871 6 1871 6 1775 6 1 775	41 10 10 10 10 10	Boys Boys Boys Boys Boys Boys Girls Boys	0 1,1855 0 18,167 0 11,1876 0 10,1876 0 11,1876 0 9,1875 0 10,1875 0 10,1875	3 '02 4 4 180 4 112 3 4 176 1 148 3 4 110 3 6 250 6	4 Poul	To exactlation	(In two promestics) (In two promestics) (In two promestics) (It will do to open) (It will not be a compared to the will not be a compared to the compared to t	None 3 1 None 4	ill from a files. 2 from rear All. from side None (ill from) 1 side & 1	2	2 weak, fine it sighted Samer sighted Fleven Five near sighted (Ten near sighted, 44 (other deets, 7)	Ves.	They admit of Improvement	We have outdoor except a constitution of the continuous outdoor except a continuous outdoor proporties.	one of the teachers and scholars suffer. Received we rel Received complying. These from slid of with mass blood	01 08 01 08 00 00 00 00 00 00 00 00 00 00 00 00	70 96 99 93 94 94 95 96 96 96 96 96 96 96 96 96 96 96 96 96
Free regime No. 7	C. C. Hossin C. Rilge J. Councer C. L. Louder Marparette T. Wei ht. C. Katte A. & Oby and Annie E. Revill L. Jane Montgomery	4 1868 4 1831 5 1871 5 1871 6 1871 6 1871	41 10 10 10 10 10	Boys Boys Boys Boys Boys Girls Boys Girls Girls	0 1,1875 0 18,187 0 11,1876 0 10,1876 0 11,1876 0 11,1876 0 12,1875 0 12,1875 0 12,1875	1 702 4 4 180 4 112 3 4 176 1 4 148 3 4 140 3 6 250 4 4 179 4	4	i law varibation "Bave no vental tour jopen the windows. If these not; have to open the windows. Always respects of to open the windows. Always news on to pen the windows. Windows have be to open de. (No vendibility appet they must open the windows with the pen to open de.) (No vendibility appet they must open the windows without the pen to open described by the pen to open the windows.)	(In two poons are children to open) (the various seed to feel to open) (text) (the various seed to feel to fee	None 3 1 None 4	ill from a control of the control of	2	2 weals, for an eligibial SS mean sighted Flevers Flevers and sighted (Ten mean sighted (Ten mean sighted (Ten mean sighted (Alamit House means) (Alamit House means) (He will be over the fill (He will be over the fill (He will be over the fill)	Ven.	They admit of Improvement Do desire very close forether	We have outdoor excellent to the property of the three outdoor excellent power for the property of the propert	Sime of the code (sound shedam suffice, Kanas of well) Secretal complying. They be under a lift majorkie of	03 71 08 00 71 00 70 70 70 70 71	70 96 99 93 94 94 95 96 96 96 96 96 96 96 96 96 96 96 96 96
Facility Pelling No.7	C. C. Hossin C. Rilge J. Councer C. L. Louder Marparette T. Wei ht. C. Katte A. & Oby and Annie E. Revill L. Jane Montgomery	4 1868 4 1831 5 1871 5 1871 6 1871 6 1775 6 1 775	41 10 10 10 10 10	Boys Boys Boys Boys Boys Boys Girls Boys	0 1,1875 0 11,1876 0 10,1876 0 10,1876 0 13,1876 0 13,1876 0 12,1877 0 12,1777 0 12,1777	3 702 4 4 180 4 1 176 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 Poul	its wathstoon Income on the windows, I thus not; have to open the windows, Always request of to open the windows. Always nees very to open the windows, Window have to be open to. One conflicting appearing many open. Verification willing appearing many open. Verification willing of product open open open.	On two poons are colling of to open the windows. I can be seen the windows. I can be seen to be see	" {	diffeon a diles. 2 All. Crons side Miffoon 1 Side & 1 None 1 Side & 1 None 1 1 1 1 1 1 1 1 1	An	2 work, 5 to or sighted Six near sighted Fleven Fleven and sighted (True near such ted, 4) other does to the control of th	V++, They store No	They admit of Improvement	We have outdoor expely on the control of the vector of the	Sum of the solutional sholar suffice. See rat couplin. See rat couplin. They be made in the messive of the solution from the solution of	01 08 01 08 00 71 00 71 70 70 70 71 12 70	70 96 97 98 97 98 98 98 98 98 98 98 98 98 98 98 98 98
Free regime No. 7	Manue E. Folllin	4 1868 4 1831 5 1871 5 1871 6 1871 6 1775 6 1 775	45 45 46 46 47 47 47	Boys Boys Boys Boys Boys Girls Boys Girls Ghrs Ghrs Boys	0 1,1875 0 18,177 0 11,1876 0 10,1876 0 10,1876 0 18,1877 0 10,1876 0 10,1877 0 10,1776 0 11,1877 0 11,1877	3 702 4 4 180 4 3 112 3 4 176 1 5 148 3 4 110 3 6 250 4 4 138 4 6 251 1	4 Full	its wathstoon Ince no central row; open the windows. I these not; heve to open the windows. Always request of to open the windows. Always recessory to open the windows. Always necessary to open the windows. Windows have to be sound. (Covernithmic appear the; must open the dates and wearen. I went the windows and the control of the control open the windows. I would be a support the control open the windows.	On two promises of chilicol to open (the annotons). If ran, a xept in from the control of the c	" { None 3 1 1 1 1 1 1 1 1 1	ill from a control of the control of	An.	2 work, 5 near sighted Sex mear sighted (Piece in Fixe mear sighted) (Piece mear sighted) (Piece mear sighted) (Piece mear sighted) (Auntal histories, 12) (Auntal histories, 12) (Histories sighted) (Histories sighted) (Histories sighted) (Histories sighted) (Histories sighted) (Histories sighted) (Histories sighted)	Yes, They can No Yes,	They admit of Improvement	We have outdoor expeller on Record with the vector of the	Some of the toda to and shelm suffer. See rat couplin. See rat couplin. They be made of the messes of could like the see of the s	01 08 01 00 01 00 00 00 00 00 00 00 00 00 00	70
Facility Pelining No. 7 Twelliffe Stands Physical Control of the Stands Pelining No. 9 The Medicine Pelining No. 9 Third Street, below Place 12 The No. 2 Third Street, below Place 13 The No. 2 Third Street, below Place 13 The No. 2 Third Street, below Place 14 The No. 2 Third Street, below Place 14 The No. 2 Third Street, below Place 14 Thi	Manne E. Polllin C.C. Hearn Rillar V. Louchnan, Riller J. Conner E. J. Loude co Margaratia T. Wei Br. L., Katte A. Kelly Man Margaratia Susan B. Parle co Mary V Pry Ja R. Wei Br. Many V Pry Ja R. Wei Br. Many Stage of Shape co	4 1868 4 1841 5 1871 5 1871 6 1871 6 1871 6 1871 6 1.61 6 1.61 6 1.61 6 1.61 6 1.61	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Boys Boys Boys Boys Boys Girls Boys Girls Girls Ghay Girls Boys Ghay Girls Boys	0 1,1875 0 11,1875 0 11,1876 0 10,1876 0 18,1876 0 18,1876 0 18,1876 0 18,1876 0 18,1876 0 11,1876 0 11,1877 0 11,1877 1,1878 1,1878 1,1878 1,1878 1,1878 1,1878	3 702 4 4 180 4 3 112 3 4 176 1 5 148 3 4 110 5 6 250 6 4 119 4 4 108 4 6 251 1 4 180 8	4 Forth	i ia w arthatom "Inwa na sentat torus open the windows It il alors not; here to open the windows. Always requested to open the windows. Always recessory to open the windows. Windows have tools open de. Case wentheting apport the windows. Case wentheting apport the man open the desired windows. It has indowns. It windows. We hower the windows. Wellower the windows. Obliged to open the windows.	On two promises of chilicol to open (the annotons). If ran, a xept in from the control of the c	" { None 3 1 1 1 1 1 1 1 1 1	Office	An	2 work, 5 to or sighted Six near sighted Fleven Fleven and sighted (Ten near such ted, 4) other does to the control of the	Ves.	They admit of Improvement	We have outdoor expely on the control of the vector of the	Some of the toda to and shelm suffer. Some of well See rat coupling. They be made of the messes of today of the desired of the messes of today of the desired of the messes of th	01 08 01 00 01 00 00 00 00 00 00 00 00 00 00	70
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PRIMARY SCHOOLS .- Continued.

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PRIMARY SCHOOLS.—Continued.

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188 Penn Prinses Y. No. 3	31. 21. 11. 11. 11. 11. 11. 11. 11. 11. 1	20		Girls Feb. 26, 1875	4 200 -			9	one "	2 2	Sev u			a line to the or or	The Burds of the Abolity outer from the		. 150
No. 5 Ninth, ab. Montgomery A	ve. IAzze Morridge	20 1873		Girls Murch 8, 1875 B. & G. " 2, 1875			No ventilators; we open the window-	(Easily by open of (ing the windows)	All from sub. N	one VIII.	Twenty-file		was properly and the			m 194	.01 152
152 0 No. 6 Eighth and Thompson St. 152 0 No. 7 Mertine Street, ab. Jeffers	and the same of th	20		Boys Feb. 26, 1875			Obliged to open the windows	Cannot >	one All from side	2 2	Eleven			o have to			153
153 " No. 8 Ninth, ab. Montgomery A	ve. Lizzle C. Thompson	20 1872		Boys " 23, 1876 B. & G. " 17, 1875		Sometimes tool	It does not; we use the windows	(With constant) (attention we can ;	4 Non	one All.	alise Four				X = 1 around obvious the ancourses	(1) 188 (1)	-
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Washington Primary Shon's Lane, Manayunk.	M. C. Young	gl 1855		B. & G. Feb. 16, 1875 B. & G. Murch 11, 1875			. We have more, we open the wirelow- Open the windows	We can	4 All from side	4	None This			talia di nasti	No		1.01
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19 Minist Primary		22		В. & G. : Арын 1, 1876	6 38	1 1 1 "	- H 44	By no means	None I All. None	- 1	Notice Notice	They co	Adapt 1 (6.0) (1.0)	\-			n 1 i 164
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ps Sitter's Lone Primary	Carried, Gilbert	23 1874		B. & G. Feb. 23, 1875	5 252	5 Foul	Open the windows	Not in all of the light of without op-1	2 1 None	9 AF	L Six		Not an	0	The state of the s	1 (0 m)	, s to 0 •
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171 " " No. 2	Salth Smitherman	24 1872	и }	Boys March 5, 1875	7 326	7 7 Foul		/ 20	6 "		Thirty-foot			Ne hore tr			70 38 174
172 Fortleth Street Primary No. 3, Fortleth and Lancaster 173 6 9 90, 4, 9 9 9	L. K. Jefferson	24 1864		Girls " "	6 321	6 6 "	Thave none, we open the windows.	VI	None 9		Form	They are	Like them very well	No.	Hoth out a tress hemische		70 68 171
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110 design Lithrich services and and an arrangement	Ave., Margaretta Furey Dary B. Miller	21 1873	0 1	Girls Feb. 25, 1875	3 165	3 Too dry		Cannot	2 L		4 weak, a near sighted	**	1177				71 NO JUST
177 Habiliacion Primury No. 7	illi 8. MePoy	24 1851		B. & G. March 9, 1875		3 3 Feed	Imperfect ventilation; open window	"	2 None		Ten Two	14	They would be very \(\sigma \) (c) If the \(\sigma \) were not stiff by the joint		North my knowled Hoth affer from the stacks	. 117	or (no. 178
178 Sherman Pilmary Prauktori Rd. & Somero	nt St. Multle Marsden un St. Alice M. Lever	25 1868	"	B. & G. " 8, 1875	5 144	4 4 "	. 9 5		All, All,		" Two		Very satisficatory .		Not to any knowledge		1 00
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		1 .	1	a c a March 17 187	5 1 33	1 1 Neither					Nine Nine	Yes.	Not propor bobolit for smaller christ		Not 1 m. huowledes	50 11	
181 E. M. Bas ett Prinney Eleventh and Untario	Ste Louber Yorker	25	41	B. & G. March 12, 187 B. & G. Feb. 26, 1875	3 105	3 3 Occasionally	Use windows entirely	Senerally	None both		ill. Nine	Yes.	Not proper hely, littler smaller vine at the let in 2d Dirt for too low and small.		Set I in Intowhele (Stool-death Into Intoha) (Stool-death Into Intoha) (Stool-death Intoha) (Stool-death Intoha) (Stool-death Intoha)	1 05 01	166
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131 [c. M. Rec et Primary.] Eleventh and Outsteller [15] Heykineon Primary. (Treen Street and Ridon [16] Hardson Primary. (Ridon-Outsteller). (Ridon-Outsteller). [16] [16] Headland Primary. [18] Street [16] Heykine Primary. [16] Eleventh and Neil Street. [17] Heykine Primary. [18] Street and Indianal	g Sin Kate Putter	25 25 26	11	B. & G. Feb. 26, 1875 B. & G. March 15, 185 B. & G. " 9, 185 B. & G. " 10, 185	3 105 5 6 96 5 6 2-3 5 9 34 4 170	3 Occasionally	Use windows entirely	Oannot		1	ketle Yery few kill, 7 near sighted o Smelcon	Yes,	In he in M Divi for too low and small, a smoot of l Scatter emfortable, only tenfore of them		Whee do not	l as in	10 10 100 197 198
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